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OCCURRENCE AND DISTRIBUTION OF MARINE MAMMALS AT SEA FROM AERIAL SURVEYS CONDUCTED ALONG THE U.S. WEST COAST BETWEEN DECEMBER 15, 1980 AND DECEMBER 17, 1985

by

Charles W. Oliver and Terry D. Jackson

ADMINISTRATIVE REPORT LJ-87-19

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OCCURRENCE AND DISTRIBUTION OF MARINE MAMMALS AT SEA FROM AERIAL SURVEYS CONDUCTED ALONG THE U. S. WEST COAST BETWEEN DECEMBER 15, 1980 AND DECEMBER 17, 1985

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INTRODUCTION

The National Marine Fisheries Service (NMFS) is required by law (Marine Mammal Protection Act of 1972) to monitor populations of marine mammals affected by U.S. fisheries. In 1980 the Southwest Fisheries Center began to collect data to determine trends in abundance of the short-finned pilot whale, Globicephala macrorhynchus, and a number of pinniped species along the U.S. west coast. Research to investigate trends in relative abundance of the harbor porpoise, Phocoena phocoena, was initiated in 1984.

Beginning in the fall of 1980, NMFS contracted with the California Department of Fish and Game (CDFG) to conduct aerial surveys for pilot whales in the immediate vicinity of Santa Catalina Island. NMFS conducted these surveys in the fall of 1982 using CDFG aircraft and personnel. This area was selected because pilot whales generally appear within the Southern California Bight (SCB) during the winter months (Brown and Norris 1956, Norris and Prescott 1961, Leatherwood et al. 1973, Reilly 1977, Dohl et al. 1978, Leatherwood and Dahlheim 1978, Evans et al. 1984). Their appearance is believed to be associated with the spawning of market squid, Loligo opalescens. Cephalopods have been identified as a major food item for long-finned pilot whales (Globicephala melaena) in the Atlantic ocean (Squires 1957, Sergeant 1962, Mercer 1975), and squid have been found in the stomachs of short-finned pilot whales (Kritzler 1952, Hall et al. 1971). Seagars and Henderson (1985) and Hacker (1986) identified market squid, Loligo opalescens, in the stomach contents of short-finned pilot whales collected off southern California.

NMFS began investigating population trends of harbor porpoise in 1984. Aerial surveys were designed to cover the nearshore waters along the U. S. west coast during the fall months with the survey design based on previous reports of harbor porpoise distribution (Huber et al. 1982, Dohl et al. 1983).

The purpose of this report is to present the procedures, data collection forms, and sighting data obtained during 61 flights conducted between December 15, 1980 and December 17, 1985 (Table 1). These data represent seven survey periods: five winter surveys for pilot whales south of Point Conception, California, and two fall surveys for harbor porpoise from Point Conception, California to Cape Flattery, Washington.

SURVEY DESIGNS

Pilot whale surveys

Strip transect methods (Eberhardt et al., 1979) were used on CDFG pilot whale surveys, conducted at Santa Catalina Island between December 1980 and March 1981. Repetitive transects were flown using a Cessna 337 Skymaster. A pilot and data recorder occupied the front seats and two observers sat in the rear. Each flight was assigned a unique flight number and consisted of a consecutive series of transects. Each transect, in turn,

consisted of a series of legs. All flights were in the immediate vicinity of Santa Catalina Island. Flights were made at an altitude of 500 feet and ground speeds of approximately 90-100 knots.

Each observer monitored two swaths outboard of the transect path, each approximately 1/8 statute mile wide (Figure 1). The swaths were delineated by three tape markings on the wing struts of the aircraft and marks on the aircraft's rear windows. These swaths were referred to as "inside" and "outside," with all other areas referred to as "extra." The extra area included the non-observed region directly under the aircraft as well as the region outboard of the outside area. The CDFG inside and outside swaths, on both sides of the aircraft, were equal in width (656 feet), whereas the NMFS swath widths were not (666 vs 686 feet). The angles defining these swaths also differed; the inside swath angle was 37 degrees of arc for CDFG flights and 31 degrees for NMFS flights. The outside swath angles were 11 degrees and 12 degrees, respectively.

Our experimental design for each flight required four transects which circumnavigated the island at various distances offshore (Figure 2). The distance from the island to the outermost transect ranged from 4.5 to 9.0 nautical miles (N.M.), encompassing an ocean area of approximately 308 square N.M.

Data recorded during a transect and leg included: the degree of cloud cover, sea state, position of the sun, and the time of a transect event (e.g., start transect, end transect, sighting). When a sighting occurred additional data were recorded regarding the number and species of animals sighted, apparent direction of travel, and the location of the sighting relative to the swaths being observed (e.g., left inside, right outside, right extra). The total area actually surveyed during a complete CDFG flight, as defined by the observed swaths, accounted for approximately 34 percent (105/308 square N.M.) of the ocean area inshore of the outermost transect (Figure 2).

NMFS conducted pilot whale surveys at Santa Catalina Island beginning in December, 1982 and expanded the coverage to other areas within the SCB. The first two flights attempted to replicate the transects flown by CDFG (Figure 2). Subsequent to these flights, the experimental design was altered to fly parallel transects at magnetic headings of 30 and 210 degrees (Figure 3). These headings were chosen to reduce the amount of sun glare encountered within the survey swaths based upon the time of day the flights were to be flown, the sun's transect path during the winter months, and the expected prevailing winds. The distances between these parallel transects were calculated to ensure that any pilot whales sighted within the surveyed swaths on one transect would not be resighted within the surveyed swaths of an adjacent transect. This calculation was based upon: 1) the relative speeds of the aircraft and animals, 2) the transects length, and 3) the perpendicular distance from the transect to the outer edge of the outside swath.

NMFS flights around Santa Catalina Island generally consisted of 32 of the 34 planned transects. The transects extended seaward from shore approximately 7 N.M. (Figure 3), with the outer ends encompassing an ocean area of approximately 497 square N.M. The total area actually surveyed during a complete NMFS flight (32 transects) amounted to approximately 24 percent (121/497 square N.M.) of the ocean area defined by the seaward ends of all transects.

Other areas within the SCB were occasionally surveyed, primarily areas with previous reports of pilot whale sightings (Dohl et al. 1978) or sightings of market squid (Squire, 1983). Transects were flown in the area of Point Dume, the San Pedro Escarpment, San Clemente Island, Santa Barbara Island, and the Santa Barbara Channel (Figures 4-9).

1984 Harbor porpoise survey

In September 1984, NMFS (including the National Marine Mammal Lab, Seattle, WA., the Southwest Region, Terminal Island, CA., and the Southwest Fisheries Center, La Jolla, CA.) coordinated with CDFG, the Washington Department of Game (WDG), and the Oregon Department of Fish and Wildlife (ODFW), to conduct a marine mammal survey of the coastal waters between Point Conception, California and Cape Flattery, Washington. The primary purpose of the survey was to collect information on the number and distribution of harbor porpoise, Phocoena phocoena, inhabiting the area.

The survey was a joint operation involving: observers aboard the National Oceanic and Atmospheric Administration (NOAA) research vessel David Starr Jordan, which followed the coastline approximately 1 N.M. offshore; shore-based observers, stationed at various locations along the coast; and observers aboard various aircraft, which flew transects parallel to the coast approximately 1/3 N.M. mile offshore. The survey was designed to provide overlapping coverage between the three platforms and replicate coverage by the vessel and aircraft.

The aerial portion of the survey was designed to accomplish the following objectives :

1) To provide strip transect coverage of the coastal region at a distance of 1/3 N.M. offshore.

2) To provide replicate coverage whenever possible.

3) To provide overlapping coverage with ground observers located at various points along the coast.

The combined survey was conducted between September 9-18, 1984, using aircraft owned or chartered by the State agencies cooperating in the effort. A total of seven flights were conducted (flight numbers 1-7).

The survey design for the harbor porpoise flights was predicated upon our desire to follow the coastline at a specified distance offshore, and the amount of time the aircraft could stay aloft. Thus, we identified starting and ending points for much longer transects than had been used for the pilot whale surveys. Inside and outside swaths were delineated using tape or string markings on the aircraft's wing struts, and the survey altitude and ground speed were planned for 700 feet and 90-100 knots, respectively. If conditions changed during a transect, we ended and began legs to maintain "effort" continuity. The outside swath extended to the coastline for the nearshore observer. At an altitude of 700 feet, the inside swath was 596 feet in width, and delineated with markings on the wing struts by 25 degrees of arc. The outside swath was 1,033 feet in width, and delineated by 17 degrees of arc. The design specified that the plane would divert and circle all sightings of harbor porpoise to obtain a total count of animals. All aircraft were equipped with Loran C navigational equipment. The aircraft were generally aloft for 4-6 hours.

1985 Harbor Porpoise Survey

Between September 11 and October 15, 1985, a second aerial survey for harbor porpoise was conducted along the coast from Point Conception, California to Cape Flattery, Washington. This survey was also a coordinated effort by the SWFC, CDFG, the NMML, WDG, and ODFW. The purpose of this survey was to collect data on the number and distribution of harbor porpoise in coastal waters for estimation of population size. Concurrent with this survey were shore-based observations and a vessel survey utilizing the NOAA ship David Starr Jordan

The objectives of the aerial survey were as follows :

1) To replicate the 1984 aerial survey of U.S. waters north of Point Conception, California at approximately 1/3 N.M. from the coastline, thus providing a second year of coverage for the area not surveyed by the vessel.

2) To perform offshore and inshore transects in two areas of higher concentrations of harbor porpoise to compare the inshore/offshore distribution of harbor porpoise.

3) To survey the U.S. waters north of Point Conception, California at approximately 1.0 N.M. offshore to provide comparable coverage by the aircraft and vessel. Analysis of these data may provide calibration between the ship and aircraft, and allow continued monitoring of the population from either platform.

4) To collect data on survey factors which might affect the observation of marine mammals from the air.

5) To record information on all marine mammal sightings within the surveyed waters.

A total of 13 flights were completed (flight numbers 1-13) with flights 1 and 11 organized and conducted by the WDG and ODFW. The remaining 11 flights were conducted by NMFS in cooperation with CDFG. Additional information on the 1985 harbor porpoise aerial survey is presented in Oliver (1986).

This survey was designed to replicate the 1984 survey and again paralleled the coastline. The inside and outside swath widths were the same as those used during the pilot whale surveys; thus, the outside swath was consistently searched. At an altitude of 700 feet the inside swath was 666 feet in width and delineated by 31 degrees of arc. The outside swath was 686 feet in width and delineated by 14 degrees of arc. Prior to departure we decided to divert from the transect for sightings of harbor porpoise only when the observer determined he had been unable to obtain a count of the animals. The aircraft was generally aloft for 4-5 hours at a time.

A series of transects were designed to cover specific areas where the abundance of harbor porpoise was generally believed to be higher. These transects were drawn at magnetic headings of 50 and 230 degrees and designed to allow a calibration of the density of harbor porpoise over a range of depths seaward to approximately 10 N.M. The swath widths and declination angles were the same as those used on other transects.

DATA COLLECTION PROCEDURES

When NMFS began conducting these surveys, two new data forms were developed: one served as a field collection form and the other allowed formatted data entry to a computer database. The field form (Figure 11) is similar to the form used by CDFG (Figure 10) with the addition of position data, in latitude and longitude (degrees and minutes), obtained from the aircraft's LORAN C navigational unit. Data from both NMFS and CDFG field forms were subsequently transcribed onto a third form (Figure 12), referred to as the Aerial Survey Effort and Sighting Form for Strip Census. The latter is a modification of the form developed for aerial surveys (Oliver 1983), over the eastern tropical Pacific ocean in 1977 (Anonymous 1977) and 1979 (Jackson 1980). These surveys used line transect methods.

Procedures used by NMFS in conducting pilot whale and harbor porpoise surveys were essentially the same as those implemented by CDFG. However, most NMFS flights were flown at 700 feet, whereas CDFG flights were at 500 feet. All NMFS flights obtained geographic position data from Loran C navigational equipment. Widths of the inside and outside swaths, the distance these swaths were offset from the transect path, and the angles defining these swaths also differed.

The data forms shown in Figures 10-12 required a recorder to keep records of sightings as they were made by observers, as well as information about environmental conditions and the aircraft.

Data collection began when the plane arrived at a predetermined starting point and the observers began monitoring their respective swaths. Any sightings made enroute were recorded as "off effort." When the plane reached the starting point of a transect the observers began searching their respective inside and outside areas while the recorder noted the starting time and position for the first leg of the transect. Additional data were recorded on conditions which might affect the observation of animals (e.g., vertical and horizontal sun positions, sea state, degree of sea-surface penetration, the presence of haze, and the aircraft speed and altitude). If any of these conditions changed during a transect, a new leg was initiated.

Each observer assessed how well he was able to effectively search his designated swaths. This assessment was recorded as a sea-surface penetration code for each swath. Excellent penetration (code 1) occurred when there was no glare and good water contrast. Good penetration (code 2) indicated conditions of no glare but little water contrast. Poor penetration (code 3) indicated there was glare on the swath being surveyed and thus, poor contrast. A sea-surface penetration code of 4 was used to indicate an observer was "off effort" for a particular swath.

At the end of a planned transect the observers ceased observation and the recorder noted the ending time and position. The pilot then proceeded to the next transect starting point and searching effort began again with leg number one. Any sightings which occurred between transects were recorded as "off effort," meaning they were not made within the area or time period prescribed for searching. If the starting position of the next transect was the same as the ending position of the current transect or leg, no break in effort occurred.

An "off effort" sighting indicated an individual, or aggregation of animals, had been observed by someone in the aircraft. An "on effort" sighting is comparable to an "off effort" sighting in many cases. However, the assumptions of strip transect method require that the objects (e.g. animals or sightings) be limited to the defined area of observation.

Our experimental design (Figure 1) resulted in a total of six areas in which we tallied sightings. Sightings by the observer on the left were always recorded as separate from those made by the observer on the right. Occasionally, sightings by either the left or right observer involved aggregations of animals which occupied more than one area and, infrequently, consisted of more than one species. These sightings were recorded by assigning a unique sighting number to the aggregation and using "sub-sighting" numbers to categorize the aggregation to swath area and species.

When a sighting occurred "on effort" the observer making the sighting called out, signaling the recorder to assign a sighting number and record the time and geographic position. Observers

dictated, into hand-held tape recorders, pertinent data about the sighting including the number of animals seen, the swath(s) occupied, and the species observed. When available the direction of travel of the animals, in relation to the aircraft's heading, and the angle of declination to the sighting were also recorded. If a closer look was required observers directed the pilot to divert the plane back to the sighting position and concentrated their efforts on resighting the animals. The recorder noted the time and position at the moment the plane diverted from the transect. The plane then circled the animals as many times as necessary to collect information on species, numbers, etc. Any additional sightings made while circling were recorded as "off effort." The pilot then flew back to the approximate point of diversion. The recorder signaled when to resume searching, noting the time and position at which effort for the transect-leg resumed. Declination angle, direction of travel, sun position, sea-surface penetration, and swath(s) occupied were not generally collected for "off effort" sightings.

Data for each sighting was transferred to the recorder either between sightings, if time permitted, or at the end of the flight by reviewing the observer's tapes and recorder's notes. Transferring data between sightings was the preferred method as this reduced the chance of losing information. An annotated example of data recorded on these forms is presented in Appendix I.

The pilot whale surveys conducted by CDFG used a different transect pattern than NMFS used in subsequent surveys. Also, CDFG flights were conducted at altitudes of 500 feet, whereas NMFS flights were generally at 700 feet. Positional data were obtained on all NMFS flights using Loran C equipment. CDFG flights did not record these data while flying predetermined transects. Finally, sea-surface penetration data, collected on NMFS flights, were not collected during the CDFG flights. These differences may confound comparisons of these data sources.

Generally, the 1984 and 1985 harbor porpoise survey collection methods were similar. The two surveys did differ, however, on the widths of the swaths, the displacement of the swaths from the trackline, and the procedures for recording "off effort" sightings. Approximately 1/3 of the 1984 outside swath area was defined as extra in the 1985 survey and not consistently searched in 1985.

During the 1984 survey the aircraft was frequently diverted from the transect when harbor porpoise were sighted. Each animal, or group, was recorded as a sub-sighting of the original sighting cue as the aircraft circled the location of the sighting. The sum of all animals counted indicated the maximum number of animals observed, without duplication, while the aircraft was "off effort."

In 1985 the aircraft was seldom diverted for sightings, and, therefore, the number of animals represents the original sighting cue. When the plane was diverted, all animals counted were recorded as a sub-sighting of the original sighting if the observer determined these were part of the original cue. If not, a new sighting number was used and the additional animals were considered as "off effort" sightings. Declination angles to sightings were not obtained during the 1984 survey but were collected whenever possible in 1985.

DATA CODING AND EDITING

The Aerial Survey Effort and Sighting Form for Strip Census (Figure 12) was not available during the initial pilot whale surveys conducted by CDFG. Data from the surveys were, however, transcribed in 1983 to the computer-format data form (Figure 12) from the original field forms (Figure 10). Although the CDFG surveys used standard transects with known starting and ending positions, location was not recorded on the field forms. These locations were back-calculated during transcription using the known times and positions, and the time recorded for sightings during a transect. The calculated positions are probably less accurate than those obtained in flight from the Loran C navigation system used on all NMFS flights. Pilot whale surveys conducted by NMFS utilized the field form shown in Figure 11. These data were transcribed to the computer-format forms (Figure 12) at the end of each flight.

The 1984 harbor porpoise survey data were collected on a form similar to Figure 12. These data were standardized to the Figure 12 format in 1986 using computer programs. The 1985 harbor porpoise data were transcribed at the completion of the surveys in October 1985. Transcription involved the use of the 1980-1985 Aerial Survey Effort and Sighting Record Coding Format for Strip Census (Table 2), the Beaufort Scale Codes for sea state conditions (Table 3), and a list of Marine Mammal Codes used to identify species or categories of marine mammals (Table 4).

Once coded, the forms were sent to a commercial service for keypunching and verification of the keypunched data. The data were subsequently entered into a computer file. A series of computer programs were used to plot each flight's effort and sightings for review. A final series of computer programs were used to summarize the data.

SUMMARY RESULTS

A total of 61 flights were completed during which 15,262 nautical miles were flown while the observers were "on effort," accounting for a total survey area of 6,973 square N.M. Table 1 presents the individual flight data for all 61 flights, including the total area surveyed while observers were "on effort," the number of animals sighted while "on effort," and the number of animals sighted while "off effort."

The number of sightings reflect the observation of a species within one of the six observed areas (left inside, right extra, etc.). A school of dolphins occupying more than one of the six areas resulted in more than one sighting record. Table 5 presents the number of sightings and total number of animals sighted, by species or category, while the observers were "on effort" for each of the seven survey periods. Table 6 presents similar data for all sightings made while the observers were "off effort." Data collected during December through March (all years), resulted from pilot whale surveys south of Point Conception, California. Data collected during September and October (all years), resulted from harbor porpoise surveys between Point Conception, California and Cape Flattery, Washington. Table 7 presents the effort data collected during all flights by date, flight number, transect, and leg. Table 8 presents the individual sighting data for all flights, classified by marine mammal species or category. All coded values represented in these tables are explained in Tables 2-4.

Figures 13-19 illustrate the locations of all sightings of short-finned pilot whales around Santa Catalina Island. The transects flown, and any sightings of pilot whales within the SCB at other than Santa Catalina Island, are shown in Figures 20-23. Figures 24-30 present the survey ranges and sightings of harbor porpoise during the 1984 survey. Figures 31-39 show the survey ranges and sightings of harbor porpoise for the 1985 survey.

Pilot Whales

Forty-one of the 61 flights were south of Point Conception, California and were designed to survey for pilot whales. These 41 flights covered 10,064 N.M. (Table 7), resulting in a surveyed area of 4,426 square N.M. (Tables 1 and 5). A total of 158 pilot whale sightings (1,386 animals) were made by the observers while "on effort" (Table 5). Sixty-seven sightings, totaling 819 animals, were observed while the observers were "off effort" (Table 6).

Fifteen flights were completed around Santa Catalina Island between December 15, 1980 and March 25, 1981 (Table 1). Pilot whales were seen on every flight, ranging from a minimum of 10 on March 25, 1981 to a maximum of 334 on January 16, 1981 (Table 8). No flights were conducted for pilot whales during the winter of 1981-1982. Nine flights were conducted around Santa Catalina Island between December 13, 1982 and February 6, 1983. Pilot whales were observed on each of these flights, ranging from a minimum of 14 on December 13, 1982, to a maximum of 160 on February 3, 1983.

Six flights were completed around Santa Catalina Island between December 12, 1983, and January 11, 1984. No pilot whales were observed. Two additional surveys were flown on January 12 and 13, 1984, in the vicinity of Point Dume, the San Pedro Escarpment, and San Clemente Island, without observing any pilot whales. Seven flights were completed between December 20, 1984

and January 18, 1985, providing coverage at all six study areas (Figures 3, 21-23). Pilot whales were seen at Santa Catalina Island on two different days, numbering 12 animals on December 21, 1984, and 50 animals on January 18, 1985. One group of 8 animals was also sighted over the San Pedro Escarpment on January 15, 1985. Additionally, two complete flights around Santa Catalina Island were made on December 16 and 17, 1985. A single group of 15 pilot whales was sighted on both flights at the same location.

Harbor Porpoise

During September 1984 seven flights were conducted between Point Conception, California and Cape Flattery, Washington. These flights resulted in 2,999 N.M. of survey effort (Table 7), accounting for a surveyed area of 1,608 square N.M. (Tables 1 and 5). A total of 1179 harbor porpoise were counted in 412 sightings while observers were "on effort" (Table 5). Twenty-seven sightings, totaling 88 animals, were tallied while observers were "off effort" (Table 6).

The September - October 1985 harbor porpoise survey resulted in 13 flights, totaling 2,199 N.M. of survey effort (Table 7), and a surveyed area of 939 square N.M. (Tables 1 and 5). A total of 128 harbor porpoise sightings were made, totaling 399 animals, while observers were "on effort" (Table 5). Twenty-five sightings were tallied, totaling 148 animals, while observers were "off effort" (Table 6).

Other Marine Mammals

Nineteen species, or categories, of marine mammals were identified during the 61 flights (Tables 5-6). Six of these accounted for 80.8% of all sightings, and 83.8% of all animals observed. These six, ranked by their contribution to the total number of sightings, were: 1) California sea lion (37.3%), 2) harbor porpoise (20.7%), 3) short-finned pilot whale (7.9%), 4) Risso's dolphin (6.5%), 5) gray whale (5.6%), and 6) common dolphin (2.8%). Ranking these same six species by their contributions to the total number of animals observed yields: 1) common dolphin (31.9%), 2) California sea lion (17.1%), 3) short-finned pilot whale (12.0%), 4) Risso's dolphin (10.9%), 5) harbor porpoise (9.9%), and 6) gray whale (2.0%). These rankings reflect only what was observed on these surveys and are not intended to indicate relative abundance.

Two-thirds of the flights were south of Point Conception, California and thus south of the current range of harbor porpoise. Conversely, the 20 flights conducted over the coastal waters north of Point Conception during September and October were unlikely to encounter gray whales.

ACKNOWLEDGEMENTS

The data form used during the 1980-1981 CDFG surveys was developed by Dan Miller and John Scholl (CDFG) with the assistance of the authors. Ken Wallace and Jay Walker (SWFC) assisted in the development of computer formats and programs to archive and summarize the data. CDFG provided aircraft and personnel throughout the surveys under a cooperative agreement with the Southwest Region (NMFS). Jim Lecky (SWR) and Doug DeMaster (SWFC) organized the cooperative agreement with Dan Miller and Doyle Hanan (CDFG). Bob Delong (National Marine Mammal Lab, NMFS) arranged flight time for the harbor porpoise surveys off Oregon and Washington with the cooperation of Steve Jeffries (WDG) and Robin Brown (ODFW). Jeffries and Brown participated in both the 1984 and 1985 harbor porpoise surveys and graciously provided the data from these flights. The authors extend their thanks to all the above as well as to the numerous observers aboard ship, on the plane, or camped along the shore, who participated on the surveys. Special thanks is extended to John Scholl, who served as the data recorder on almost all of the flights off southern California and Larry Heitz, pilot/warden with CDFG, who exemplified the professional pilot. This report was improved by the critical reviews of D. DeMaster, R. Holt and J. Barlow.

LITERATURE CITED

Anonymous. 1977. Aerial survey trip report January - June 1977. SWFC Admin. Rep. No. LJ-78-01, Southwest Fisheries Center, La Jolla, California. 73 pp.

Brown, D. H. and K. S. Norris. 1956. Observations of captive and wild cetaceans. J. Mamm. 37:311-326.

Dohl, T. P., K. S. Norris, R. C. Guess, J. D. Bryant and M. W. Honig. 1978. Marine mammal and seabird surveys of the Southern California Bight area 1975-1978. Vol. III. Investigators' Reports. Part II - Cetacea of the Southern California Bight. Report to the Bureau of Land Management on contract AA550-CT7-36. 414 pp.

Dohl, T. P., R. C. Guess, M. L. Duman and R. C. Helm. 1983. Cetaceans of central and northern California, 1980-1983: Status, abundance and distribution. Report for Pacific OCS Region, Mineral Management Services, U. S. Dept. of Int., Contract No. 14-12-0001-29090. 284 pp.

Eberhardt, L. L., D. G. Chapman and J. R. Gilbert. 1979. A review of marine mammal census methods. Wildlife Monographs No. 63. 46 pp.

Evans, W. E., J. A. Thomas and D. B. Kent. 1984. A study of pilot whales (Globicephala macrorhynchus) in the Southern California Bight. SWFC Admin. Rep. No. LJ-84-38C. Southwest Fisheries Center, La Jolla, California. 47 pp.

Hacker, E. S. 1986. Stomach content analysis of short-finned pilot whales (Globicephala macrorhynchus) and northern elephant seals (Mirounga angustirostris) from the Southern California Bight. SWFC Admin. Rep. No. LJ-86-08C. Southwest Fisheries Center, La Jolla, California. 34 pp.

Hall, J. D., W. G. Gilmartin and J. L. Mattson. 1971. Investigation of a Pacific pilot whale stranding on San Clemente Island. J. Wildl. Dis. 7:324-327.

Huber, H. R., D. G. Ainley and S. H. Morrell. 1982. Sightings of cetaceans in the Gulf of the Farallones, California, 1971-1979. Calif. Fish and Game 68(3):183-190.

Jackson, T. D. 1980. Trip report: Porpoise population aerial survey of the eastern tropical Pacific ocean January 22 - April 25, 1979. SWFC Admin. Rep. No. LJ-80-1, Southwest Fisheries Center, La Jolla, California. 74 pp.

Kritzler, H. 1952. Observations on the pilot whale in captivity. J. Mamm. 33:321-334.

Leatherwood, J. S. and M. E. Dahlheim. 1978. Worldwide distribution of pilot whales and killer whales. Naval Ocean Systems Center Technical Note 443. 39 pp.

Leatherwood J. S., G. E. Lingle and W. E. Evans. 1973. The Pacific pilot whale (Globicephala spp.). Naval Undersea Center Technical Note 933. 48 pp.

Mercer, M. C. 1975. Modified Leslie-DeLury population models of the long-finned pilot whale (Globicephala melaena) and annual production of the short-finned squid (Illex illecebrosus) based upon their interaction at Newfoundland. J. Fish. Res. Board Can. 32(7):1145-1154.

Norris, K. N. and Prescott J. H. 1961. Observations on Pacific cetaceans of Californian and Mexican waters. Univ. of Calif. Publ. in Zool. 63(4):291-402.

Oliver, C. W. 1983. Documentation of aerial survey sighting and transect forms for the 1977 and 1979 eastern tropical Pacific cetacean surveys. SWFC Admin. Rep. No. LJ-83-20, Southwest Fisheries Center, La Jolla, California. 39 pp.

Oliver, C. W. 1986. Trip report: 1985 harbor porpoise aerial surveys, September 9 to October 15, 1985. SWFC Admin. Rep. No. LJ-86-21, Southwest Fisheries Center, La Jolla, California. 29 pp.

Reilly, S. B. 1977. The distribution of pilot whales, Globicephala Macrorynchus, Gray 1846, in the eastern tropical Pacific. Master's thesis, Calif. Poly. State Univ., San Luis Obispo, CA. 79 pp.

Seagars, D. J. and J. R. Henderson. 1985. Cephalopod remains from the stomach of a short-finned pilot whale collected near Santa Catalina Island, California. J. Mamm. 66(4):777-779.

Sergeant, D. E. 1962. The biology of the pilot whale or pothead whale Globicephala melaena (Traill) in Newfoundland waters. J. Fish. Res. Board Can., Bull. 132. 84 pp.

Squire, J. L. 1983. Abundance of pelagic resources off California 1963-78, as measured by an airborne fish monitoring program. NOAA Tech. Rep. NMFS SSRF-762. 75 pp.

Squires, H. J. 1957. Squid, Illex illecebrosus (LeSueur), in the Newfoundland fishing area. J. Fish. Res. Board Can. 14(5):693-728.

Table 1. Flight summary data obtained during aerial surveys for marine mammals conducted between December 15, 1980 and December 17, 1985 along the U.S. west coast.

DATE (YY/MM/DD)	FLIGHT NUMBER	SURVEY EFFORT AND TOTAL NUMBER OF ANIMALS SIGHTED FOR ALL SPECIES COMBINED			TARGET SPECIES	TYPE OF AIRCRAFT	FLIGHT AREA (CODE)	OBSERVERS		RECORDER	PILOT
		AREA[1] (NM SQUARE)	NUMBER[2] ON-EFFORT	OTHER				LEFT	RIGHT		
80/12/15	1	105	275	76	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	JACKSON	MILLER	SCHOLL	HEITZ
80/12/16	2	105	197	101	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	SEAGARS	MILLER	SCHOLL	HEITZ
80/12/17	3	105	324	110	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	SEAGARS	MILLER	SCHOLL	HEITZ
80/12/18	4	105	63	13	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	LECKY	MILLER	SCHOLL	HEITZ
81/01/13	5	105	285	124	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	DEMASTER	MILLER	SCHOLL	HEITZ
81/01/15	6	105	207	151	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	HEYNING	SAMARAS	SCHOLL	HEITZ
81/01/16	7	105	409	173	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	HEYNING	SAMARAS	SCHOLL	HEITZ
81/01/17	8	105	81	100	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	HEYNING	SAMARAS	SCHOLL	HEITZ
81/02/23	9	105	102	27	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	MILLER	PATTEN	SCHOLL	HEITZ
81/02/24	10	105	184	19	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	MILLER	PATTEN	SCHOLL	HEITZ
81/02/26	11	105	194	41	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	MILLER	HERDER	SCHOLL	HEITZ
81/02/27	12	105	219	18	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	HERDER	PATTEN	SCHOLL	HEITZ
81/03/23	13	105	63	14	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	LECKY	PATTEN	SCHOLL	HEITZ

[1] Includes only the area defined by the swath widths while the observers were activily searching.

[2] On-effort sightings occurred within the swaths being activily searched. Other sightings occurred either outside these swaths, or within the swaths while the observers were not activily searching.

Table 1. continued

DATE (YY/MM/DD)	FLIGHT NUMBER	SURVEY EFFORT AND TOTAL NUMBER OF ANIMALS SIGHTED FOR ALL SPECIES COMBINED			TARGET SPECIES	TYPE OF AIRCRAFT	FLIGHT AREA (CODE)	OBSERVERS		RECORDER	PILOT
		AREA[1] (NM SQUARE)	NUMBER[2] ON-EFFORT	OTHER				LEFT	RIGHT		
81/03/24	14	105	74	45	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	PATTEN	BALDRICH	SCHOLL	HEITZ
81/03/25	15	105	113	12	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	PATTEN	BALDRICH	SCHOLL	HEITZ
82/12/13	16	106	131	5	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
82/12/14	17	106	211	86	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
82/12/15	18	120	293	122	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
82/12/16	19	121	264	101	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
82/12/17	20	118	111	1	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/02/03	21	119	387	389	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/02/04	22	123	67	4	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/02/05	23	114	295	162	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/02/06	24	122	242	108	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/02/07	ABORTED	0	0	87	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/12/12	25	120	306	7	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/12/13	26	119	73	118	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
83/12/14	27	120	164	445	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ

Table 1. continued

DATE (YY/MM/DD)	FLIGHT NUMBER	SURVEY EFFORT AND TOTAL NUMBER OF ANIMALS SIGHTED FOR ALL SPECIES COMBINED			TARGET SPECIES	TYPE OF AIRCRAFT	FLIGHT AREA (CODE)	OBSERVERS		RECORDER	PILOT
		AREA[1] (NM SQUARE)	NUMBER[2] ON-EFFORT	OTHER				LEFT	RIGHT		
83/12/15	ABORTED	0	0	0	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
84/01/09	28	117	131	111	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
84/01/10	29	121	169	83	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
84/01/11	30	117	214	196	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	OLIVER	HANSEN	SCHOLL	HEITZ
84/01/12	31	36	6	327	PILOT WHALE	CESSNA 337	POINT DUME (2)	OLIVER	HANSEN	SCHOLL	HEITZ
84/01/12	31	69	865	118	PILOT WHALE	CESSNA 337	SAN PERDO ESCARPMENT (3)	OLIVER	HANSEN	SCHOLL	HEITZ
84/01/13	32	31	13	79	PILOT WHALE	CESSNA 337	SAN CLEMENTE ISLAND (4)	OLIVER	HANSEN	SCHOLL	HEITZ
84/09/09	1	256	78	22	HARBOR PORPOISE	CESSNA 172	OREGON (8) AND WASHINGTON (8)	JACKSON	BROWN	JEFFRIES	ZORICH
84/09/10	2	225	188	1	HARBOR PORPOISE	CESSNA 172	OREGON (8)	BROWN JACKSON	JACKSON BROWN	JEFFRIES	ZORICH
84/09/11	3	126	187	4	HARBOR PORPOISE	CESSNA 172	OREGON (8)	JACKSON BROWN	BROWN JACKSON	JEFFRIES	ZORICH
84/09/11	3	79	138	8	HARBOR PORPOISE	CESSNA 172	CALIFORNIA (7)	JACKSON BROWN	BROWN JACKSON	JEFFRIES	ZORICH
84/09/13	4	254	358	17	HARBOR PORPOISE	CESSNA 185	CALIFORNIA (7)	PERRYMAN	JACKSON	DIAMOND	ANTHES
84/09/14	5	204	267	42	HARBOR PORPOISE	CESSNA 185	CALIFORNIA (7)	PERRYMAN	JACKSON	DIAMOND	HEITZ
84/09/17	6	219	540	18	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	JACKSON	PERRYMAN	DIAMOND	HEITZ
84/09/18	7	245	292	7	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	JACKSON	PERRYMAN	DIAMOND	HEITZ

Table 1. continued

DATE (YY/MM/DD)	FLIGHT NUMBER	SURVEY EFFORT AND TOTAL NUMBER OF ANIMALS SIGHTED FOR ALL SPECIES COMBINED			TARGET SPECIES	TYPE OF AIRCRAFT	FLIGHT AREA (CODE)	OBSERVERS		RECORDER	PILOT
		AREA[1] (NM SQUARE)	NUMBER[2] ON-EFFORT	OTHER				LEFT	RIGHT		
84/12/20	33	120	33	151	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	SCHOLL	REILLY	OLIVER	HEITZ
84/12/21	34	115	681	449	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	REILLY	SCHOLL	OLIVER	HEITZ
84/12/21	34	20	149	41	PILOT WHALE	CESSNA 337	SANTA BARBARA ISLAND (5)	REILLY	SCHOLL	OLIVER	HEITZ
85/01/14	35	122	363	668	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	REILLY	SCHOLL	OLIVER	HEITZ
85/01/14	35	0	0	69	PILOT WHALE	CESSNA 337	SAN PEDRO ESCARPMENT (3)	REILLY	SCHOLL	OLIVER	HEITZ
85/01/15	36	72	17	39	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	REILLY	OLIVER	SCHOLL	HEITZ
85/01/15	36	42	373	1	PILOT WHALE	CESSNA 337	SAN PEDRO ESCARPMENT (3)	REILLY	OLIVER	SCHOLL	HEITZ
85/01/16	37	65	32	15	PILOT WHALE	CESSNA 337	SANTA BARBARA CHANNEL (6)	SCHOLL	REILLY	OLIVER	HEITZ
85/01/16	38	35	13	10	PILOT WHALE	CESSNA 337	POINT DUME (2)	SCHOLL	REILLY	OLIVER	HEITZ
85/01/16	38	30	0	0	PILOT WHALE	CESSNA 337	SAN PEDRO ESCARPMENT (3)	SCHOLL	REILLY	OLIVER	HEITZ
85/01/18	39	56	71	11	PILOT WHALE	CESSNA 337	SAN CLEMENTE ISLAND (4)	REILLY	OLIVER	SCHOLL	HEITZ
85/01/18	39	33	34	57	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	REILLY	OLIVER	SCHOLL	HEITZ
85/09/11	1	6	1	0	HARBOR PORPOISE	CESSNA 172	CALIFORNIA (7)	OLIVER	BROWN	JEFFRIES	YORK
85/09/11	1	116	4	0	HARBOR PORPOISE	CESSNA 172	OREGON (8)	OLIVER	BROWN	JEFFRIES	YORK
85/09/16	2	137	91	1	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ

Table 1. continued

DATE (YY/MM/DD)	FLIGHT NUMBER	SURVEY EFFORT AND TOTAL NUMBER OF ANIMALS SIGHTED FOR ALL SPECIES COMBINED			TARGET SPECIES	TYPE OF AIRCRAFT	FLIGHT AREA (CODE)	OBSERVERS		RECORDER	PILOT
		AREA[1] (NM SQUARE)	NUMBER[2] ON-EFFORT	OTHER				LEFT	RIGHT		
85/09/17	3	32	85	0	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	ANTHES
85/09/18	4	94	25	3	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ
85/09/19	5	19	1	0	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ
85/09/19	6	20	39	38	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ
85/09/19	7	26	5	0	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ
85/09/19	8	17	15	0	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ
85/09/19	9	53	9	0	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ
85/09/20	10	68	92	0	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	DIAMOND	HEITZ
85/10/04	11	116	22	2	HARBOR PORPOISE	AERO COMMANDER 500S	WASHINGTON (8) AND OREGON (8)	JEFFRIES	TROUTMAN	GEIGER	THOMAS
85/10/14	12	129	263	99	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	BARLOW	HEITZ
85/10/15	13	106	243	107	HARBOR PORPOISE	CESSNA 337	CALIFORNIA (7)	HANAN	OLIVER	BARLOW	HEITZ
85/12/16	40	120	336	295	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	SCHOLL	LECKY	OLIVER	HEITZ
85/12/17	41	122	453	395	PILOT WHALE	CESSNA 337	SANTA CATALINA ISLAND (1)	LECKY	SCHOLL	OLIVER	HEITZ

Table 2. 1980-1985 Aerial survey effort and sighting record coding format for strip census.

Columns	Data Element	Explanation or Reference
		Record 1 of 1
1	Flight Area	The numeric code for the general area of the survey. 1 = Santa Catalina Island 2 = Point Dume 3 = San Pedro Escarpment (Point Fermin) 4 = San Clemente Island 5 = Santa Barbara Island 6 = Santa Barbara Channel 7 = California: north of Point Conception 8 = Oregon and Washington
2- 3	Flight Number	A consecutive number assigned to each flight.
4- 5	Transect Number (1 to N)	A number assigned to a planned trackline to be flown during a survey. Generally, transects were flown beginning with transect (1) and ending with transect (N).
6- 7	Leg Number (1 to N)	A consecutive number assigned to each of the legs within a particular flight and transect, for a given area. Leg (1) begins with start of effort and Leg (N) ends upon termination of effort for the transect.
8- 9	Year (YR)	The year the Leg was flown.
10-11	Month (MO)	The month the Leg was flown.
12-13	Day	The day the Leg was flown.
14-17	Altitude	The altitude (in feet) of the aircraft at the start of each Leg.
18-20	Ground Speed	The aircraft's estimated speed (in knots) over the water recorded at the start of each Leg.
21-22	Left Observer	The numeric code identifying the individual occupying the left side observation station.
23-24	Right Observer	The numeric code identifying the individual occupying the right side observation station.

Table 2. Continued

Observer Codes			
Code	Name	Code	Name
4	T. Jackson	25	W. Samaras
9	W. Perryman	26	D. Patten
10	C. Oliver	27	M. Herder
12	B. Brinkerhoff	28	A. Baldrich
13	L. Hansen	29	S. Reilly
20	D. Miller	30	J. Scholl
21	D. Seagars	31	D. Hanan
22	J. Lecky	32	R. Brown
23	D. DeMaster	33	B. Troutman
24	J. Heyning	34	S. Jeffries

Columns	Data Element	Explanation or Reference
25	Haze? Y/N	The numeric code to the question, "Did haze or fog occur between the observers and the water surface being surveyed during this leg?" 1 = Yes 2 = No
26	Sky Condition	The numeric code indicating the amount of cloud cover observed during a leg, recorded as a percent of total sky in the area being surveyed. 1 = Clear (less than 26%) 2 = Scattered (26% - 59%) 3 = Mostly Cloudy (60% - 95%) 4 = Overcast (96% - 100%) 5 = Rain

SEA-SURFACE PENETRATION CODES:

Sea-surface penetration was determined by the observers for each swath, and is a combination of the effects of a number of factors. Cloud cover, haze, sun positions, observation angles, sea state, and water color all affect the observer's determination which were coded as follows :

Excellent - no glare on swath and good water contrast.
Good - no glare on swath but only little water contrast.
Poor - glare present on swath thus preventing the observer to see though the surface.

Table 2. continued

Columns	Data Element	Explanation or Reference
27	Left Inside Penetration	The numeric code indicating the left observer's determination of the degree of water surface penetration for the inside area. Code 4 indicates the observer was not searching during the leg. 1 = Excellent 2 = Good 3 = Poor 4 = Off Effort
28	Left Outside Penetration	The numeric code indicating the left observer's determination of the degree of water surface penetration for the outside area. Code 4 indicates the observer was not searching during the leg. 1 = Excellent 2 = Good 3 = Poor 4 = Off Effort
29	Right Inside Penetration	The numeric code indicating the right observer's determination of the degree of water surface penetration for the inside area. Code 4 indicates the observer was not searching during the leg. 1 = Excellent 2 = Good 3 = Poor 4 = Off Effort
30	Right Outside Penetration	The numeric code indicating the right observer's determination of the degree of water surface penetration for the outside area. Code 4 indicates the observer was not searching during the leg. 1 = Excellent 2 = Good 3 = Poor 4 = Off Effort
31-32	Horizontal Sun Position	At the beginning of the Leg, the sun's horizontal clock position in relation to the bow of the aircraft. Coded 1 through 12. 13 = Overcast.
33	Vertical Sun Position	Sun's vertical position from the horizon to directly overhead using the clock hours between 1 and 5 (i.e., 3, 2, 1, 4 for overhead, and 5 for overcast).
34	Beaufort Number	Sea state conditions according to the Beaufort scale numeric codes.

Table 2. continued

Columns	Data Element	Explanation or Reference
35	Swath Width	The numeric code indicating the approximate width of the inside and outside swaths based upon the angles formed by a mark on either observation window (at 60 inches from ground to window when aircarft is on the ground) and taped markings on the wing struts, for a given altitude (500, 700 or 800 feet).

			Inside Swath		Outside Swath	
Code	Tape Color	Altitude (feet)	Angles (degrees Declination)	Width (feet)	Angles (degrees Declination)	Width (feet)
1	Green	700	37-67	666	23-36	686
2	Black	500	28-67	728	18-27	599
3	Red	800	39-67	648	25-38	728
4	Green	800	36-67	761	23-35	784
5	Black	500	30-67	656	18-29	656
6	na	700	36-60	596	19-35	1033

Columns	Data Element	Explanation or Reference
36-40	Latitude	The latitude in degrees (2 digits), minutes (2 digits), and tenths of minutes (1 digit).
41	N/S	Numeric code indicating north or south latitude. North = 1, South = 2.
42-47	Longitude	The longitude in degrees (3 digits), minutes (2 digits), and tenths of minutes 1 digit).
48	E/W	Numeric code indicating east or west longitude. East = 1, West = 2.
49-53	Local Time	The local time at which position was recorded in hours, minutes, and tenths of minutes (based on 24 hour clock).

Table 2. Continued

Columns	Data Element	Explanation or Reference
54	Reason for Position	Numerically coded reason for recording time and position. 1 = Begin Leg 2 = Transect check or sighting 3 = Divert from transect 4 = Over school (if away from transect) 5 = Return to transect 6 = End Leg
55	Searching? Y/N	A numerically coded answer to the question: "was the aircraft engaged in searching effort when the time and position were recorded?" 1 = Yes 2 = No The plane was not in the search mode (column 55 was equal to 2), if the transect could not be guarded, or if the plane had diverted from the trackline. A sighting could result in the plane diverting from trackline in which case a reason position code 3 (column 54) and a searching code of 2 (column 55) was entered after the sighting record was completed. Any sightings which occurred while the plane was diverted were recorded as code 4 for reason position (column 54) and code 2 for searching (column 55).
56-57	Sighting Number	A consecutive number assigned to each sighting of a species of marine mammals at sea, from 1-99, througout a flight in a given area or areas. Sightings were recorded by both the left and right observers. The same sighting number was assigned to a sighting made on either the left or right side, regardless of the relative location of the animals (i.e., inside, outside, or extra).
58	Sub-sighting	A consecutive number assigned to each Number sighting, from 1-9, indicating that either multiple species were sighted or the animals were in more than one relative location (i.e, inside, outside, extra), or both.

Table 2. continued

Columns	Data Element	Explanation or Reference
59	Pilot Whales? Y/N	The numeric code indicating whether or not this sighting involved a specifically targeted species (eg. pilot whales). This variable was used to note other species depending upon the flight's target species (eg. harbor porpoise). 1 = Yes 2 = No
60	Left or Right	The numeric code indicating the side of the transect on which the sighting occurred. 1 = Left 2 = Right
61	In/Out/Extra ?	The numeric code indicating the swath area in which the sighting occured. 1 = Inside Swath 2 = Outside Swath 3 = Not Inside or Outside Swaths
62	Count? Y/N	The numeric code indicating whether or not this sighting should be used for density estimates. This determination required that: 1) the plane was in a search mode and, 2) the swath in which the sightingoccurred was being activily searched (eg. the inside or outside swaths). 1 = Yes 2 = No
63-65	Number Sighted	The numeric value for the number of animals, of a single species, observed in one of the three relative locations (i.e., Inside, Outside, Extra).
66-67	Species Code	The numeric value indicating the marine mammal species sighted.

Table 2. continued

Columns	Data Element	Explanation or Reference
68-69	Direction	The numeric value indicating the approximate direction of movement of the sighted animal(s) at the time of sighting. Coded as a clock position relative to the bow of the aircraft (Codes 1 through 12, 13 = No obvious direction), or as follows: 14 = Northerly 15 = Southerly 16 = Easterly 17 = Westerly
70-71	Declination Angle	The numeric value, in degrees from the horizontal to the sighting, for this sighting.

USAGE NOTES

Each time a position was taken and associated information collected (columns 36 - 58), a new record was created. Columns 1 - 35 were repeated for each position, i.e, for each record within a leg, with legs being concluded if sighting conditions changed.

Table 3. Beaufort Scale Codes (Bowditch, N. 1966. American Practical Navigator, U.S. Government Printing Office, Hydrographic Office Pub. No. 9, 1524 p.)

Knots	Descriptive	Sea Conditions	Wind force (Beaufort)	Probable Wave height in feet
0- 1	Calm	Sea smooth and mirror-like.	0	-
1- 3	Light Air	Scale-like ripples without foam crests.	1	1/4
4- 6	Light Breeze	Small, short wavelets; crests have a glassy appearance and do not break.	2	1/2
7-10	Gentle Breeze	Large wavelets; some crests begin to break; foam of glassy appearance. Occasional white foam crests.	3	2
11-16	Moderate Breeze	Small waves, becoming longer; fairly frequent white foam crests.	4	4
17-21	Fresh Breeze	Moderate waves, taking a more pronounced long form: many white foam crests; there may be some spray.	5	6
22-27	Strong Breeze	Large waves begin to form; white foam crests are more extensive everywhere; there may be some spray.	6	10
28-33	Near Gale	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind; spindrift begins.	7	14
34-40	Gale	Moderately high waves of greater length; edges of crests break into spindrift; foam is blown in well-marked streaks along the direction of the wind.	8	18
41-47	Strong Gale	High waves; dense streaks of foam along the direction of the wind; crests of waves begin to topple, tumble, and roll over; spray may reduce visibility.	9	23
48-55	Storm	Very high waves with long overhanging crests. The resulting foam in great patches is blown in dense white streaks along the direction of the wind. On the whole, the surface of the sea is white in appearance. The tumbling of the sea becomes heavy and shocklike. Visability is reduced.	10	29
56-63	Violent Storm	Exceptionally high waves that may obscure small and medium-sized ships. The sea is completely covered with long white patches of foam lying along the direction of the wind. Everywhere the edges of the wave crests are blown into 'froth'. Visibility reduced.	11	37
64-71	Hurricane	The air is filled with foam and spray. Sea completely white with driving spray; visibility very much reduced.	12	45

Table 4. The code table used by the Coastal Marine Mammal Project (NMFS) to identify, by numeric codes, species and stocks of cetaceans, pinnipeds, and other marine mammals.

Species code	Short Name	Code Table 15 Marine Mammal Codes		Scientific Name
5	Unid. delph	(1981-)	unidentified common dolphin	Delphinus delphis
13	Streaker	(1981-)	unidentified striped dolphin	Stenella coeruleoalba
18	Tursiops	(1981-)	unidentified bottlenose dolphin	Tursiops truncatus
21	Grampus	(1981-)	Risso's dolphin	Grampus griseus
22	Lagenorhynchus	(1981-)	Pacific white-sided dolphin	Lagenorhynchus obliquidens
25		(1981-)	Dusky dolphin	Lagenorhynchus obscurus
27	Lissodelphis	(1981-)	northern right whale dolphin	Lissodelphis borealis
31	Peponocephala	(1981-)	melon-headed whale	Peponocephala electra
32	Feresa	(1981-)	pygmy killer whale	Feresa attenuata
33	Pseudorca	(1981-)	false killer whale	Pseudorca crassidens
34	Globicephala	(1981-)	unidentified pilot whale	Globicephala sp.
35	Globicephala	(1981-)	long-finned pilot whale	Globicephala melaena
36	Globicephala	(1981-)	short-finned pilot whale	Globicephala macrorhynchus
37		(1981-)	killer whale	Orcinas orca
40		(1981-)	harbor porpoise	Phocoena phocoena
41		(1981-)	Cochito	Phocoena sinus
44		(1981-)	Dall's porpoise	Phocoenoides dalli
46		(1981-)	sperm whale	Physeter catodon
47		(1981-)	pygmy sperm whale	Kogia brevicops
48		(1981-)	dwarf sperm whale	Kogia simus
49		(1981-)	unidentified beaked whale	Ziphiid
51	Mesoplodont	(1981-)	unidentified mesoplodon	Mesoplodon sp.
61		(1981-)	Cuvier's beaked whale	Ziphius cavirostris
62		(1981-)	Arnoux's beaked whale	Beradius arnouxi
64		(1981)	Shepherd's beaked whale	Tasmacetus shepherdi
69		(1981)	gray whale	Eschrichtius robustus
70	Unid. rorqual	(1981)	Unidentified rorqual	Balaenoptera sp.
71		(1981)	Minke whale	B. acutorostrata, B. bonaerensis
72		(1981)	Bryde's whale	Balaenoptera edeni
73		(1981)	Sei whale	Balaenoptera borealis
74		(1981)	fin whale	Balaenoptera physalus
75		(1981)	blue whale	Balaenoptera musculus
76	Humpback whale	(1981)	humpback whale	Megaptera novaeangline
77	Unid. porpoise	(1981)	unidentified dolphin or porpoise	
78	Unid. Sml. Whale	(1981)	unidentified small whale	
79	Unid. Lrg. Whale	(1981)	unidentified large whale	
80	S. Sea Otter	(1981)	Southern sea otter	Enhydra lutris nereis
91	Sea lion	(1981)	California sea lion	Zalophus californianus
92	Elephant seal	(1981)	northern elephant seal	Mirounga angustirostris
93	Harbor seal	(1981)	harbor seal	Phoca vitulina richardsi
94	N. fur seal	(1981)	Pribilof fur seal	Callorhinus ursinus
95	Steller sea lion	(1981)	Steller sea lion	Eumetopias jubatus
96	S. fur seal	(1981)	Guadalupe fur seal	Arctocephalus townsendi
97		(1981)	unidentified pinniped	
98		(1981)	unidentified whale	
99		(1981)	unidentified cetacean	

Table 5. On-effort sightings, by survey period and marine mammal code, obtained during aerial surveys conducted between December 15, 1980 and December 17, 1985 along the U.S. west coast (# = number of animals; S = number of sightings).

CODE COMMON NAME	DEC-MAR 1980-1981		DEC-FEB 1982-1983		DEC-JAN 1983-1984		SEP 1984		DEC-JAN 1984-1985		SEP-OCT 1985		DEC 1985	
	#	(S)	#	(S)	#	(S)	#	(S)	#	(S)	#	(S)	#	(S)
05 common dolphin	129	(6)	177	(5)	1237	(15)	0		1017	(18)	0		578	(8)
18 bottlenose dolphin	90	(26)	30	(5)	7	(1)	0		0		0		19	(4)
21 Risso's dolphin	414	(40)	520	(74)	152	(7)	0		60	(13)	0		80	(8)
22 Pacific white-sided dolphin	0		32	(7)	139	(23)	0		41	(4)	0		0	
27 northern right whale dolphin	11	(4)	0		0		0		0		0		0	
36 short-finned pilot whale	1017	(117)	311	(37)	0		0		49	(3)	0		9	(1)
37 killer whale	0		0		0		18	(1)	0		0		0	
40 harbor porpoise	0		0		0		1179	(412)	0		399	(128)	0	
44 Dall's porpoise	42	(12)	1	(1)	3	(1)	0		1	(1)	0		0	
47 pygmy sperm whale	0		2	(1)	0		0		0		0		0	
49 unidentified beaked whale	0		0		0		1	(1)	0		0		0	
69 gray whale	73	(35)	15	(8)	68	(27)	8	(7)	50	(21)	3	(3)	0	
71 Minke whale	0		0		0		1	(1)	1	(1)	0		0	
73 Sei whale	1	(1)	5	(2)	1	(1)	0		0		0		0	
77 unidentified dolphin or porpoise	0		246	(28)	17	(7)	0		358	(14)	3	(1)	80	(6)
78 unidentified small whale	0		0		0		1	(1)	2	(2)	0		0	
79 unidentifed large whale	0		0		0		0		1	(1)	0		0	
80 Southern sea otter	0		0		0		43	(17)	0		2	(2)	0	
91 California sea lion	769	(299)	507	(220)	229	(149)	710	(173)	125	(58)	417	(114)	18	(6)
92 northern elephant seal	1	(1)	1	(1)	2	(2)	0		9	(7)	2	(2)	0	
93 harbor seal	67	(42)	4	(2)	1	(1)	40	(25)	5	(5)	42	(12)	1	(1)
95 Steller sea lion	0		0		0		23	(15)	0		4	(4)	0	
97 unidentified pinniped	83	(17)	90	(49)	9	(8)	20	(9)	52	(30)	21	(19)	4	(3)
98 unidentified whale	0		0		0		4	(3)	0		2	(1)	0	
99 unidentified cetacean	93	(32)	60	(4)	76	(6)	0		0		0		0	
Totals	2790	(632)	2001	(444)	1941	(248)	2048	(665)	1771	(178)	895	(286)	789	(37)
ON-EFFORT AREA SURVEYED IN SQUARE NAUTICAL MILES	1575		1049		853		1608		707		939		242	

Table 6. Off-effort sightings, by survey period and marine mammal code, obtained during aerial surveys conducted between December 15, 1980 and December 17, 1985 along the U.S. west coast (# = number of animals; S = number of sightings).

CODE	COMMON NAME	DEC-MAR 1980-1981		DEC-FEB 1982-1983		DEC-JAN 1983-1984		SEP 1984		DEC-JAN 1984-1985		SEP-OCT 1985		DEC 1985	
		#	(S)	#	(S)	#	(S)	#	(S)	#	(S)	#	(S)	#	(S)
05	common dolphin	36	(2)	347	(3)	1020	(12)	0		848	(7)	0		474	(4)
18	bottlenose dolphin	19	(3)	10	(2)	13	(1)	0		0		0		28	(2)
21	Risso's dolphin	237	(16)	170	(15)	300	(7)	0		66	(7)	0		0	
22	Pacific white-sided dolphin	2	(1)	3	(1)	53	(3)	0		346	(4)	0		143	(2)
27	northern right whale dolphin	14	(2)	0		0		0		0		0		0	
36	short-finned pilot whale	561	(50)	216	(14)	0		0		21	(1)	0		21	(2)
37	killer whale	0		0		0		0		0		0		0	
40	harbor porpoise	0		0		0		88	(27)	0		148	(25)	0	
44	Dall's porpoise	4	(2)	0		0		0		0		0		0	
47	pygmy sperm whale	0		0		0		0		0		0		0	
49	unidentified beaked whale	0		0		0		0		0		0		0	
69	gray whale	43	(16)	21	(11)	52	(19)	2	(2)	24	(10)	2	(2)	0	
71	Minke whale	0		0		0		0		0		0		0	
73	Sei whale	0		5	(2)	3	(1)	0		0		0		0	
77	unidentified dolphin or porpoise	0		104	(6)	22	(1)	0		138	(5)	3	(1)	5	(1)
78	unidentified small whale	0		0		0		0		0		0		0	
79	unidentifed large whale	1	(1)	2	(1)	3	(1)	0		0		0		0	
80	Southern sea otter	0		0		0		21	(1)	0		1	(1)	0	
91	California sea lion	17	(7)	182	(10)	5	(4)	5	(5)	54	(9)	95	(10)	18	(3)
92	northern elephant seal	0		0		0		0		0		0		0	
93	harbor seal	0		0		1	(1)	0		0		0		0	
95	Steller sea lion	0		0		0		2	(2)	0		1	(1)	0	
97	unidentified pinniped	3	(1)	5	(1)	2	(2)	0		14	(3)	0		1	(1)
98	unidentified whale	0		0		0		1	(1)	0		0		0	
99	unidentified cetacean	87	(12)	0		10	(1)	0		0		0		0	
	Totals	1024	(113)	1065	(66)	1484	(53)	119	(38)	1511	(46)	250	(40)	690	(15)

Table 7. Searching effort recorded by date, flight, transect, and leg number as obtained during aerial surveys conducted between December 15, 1980 and December 17, 1985 along the U.S. west coast.

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left Right I O I O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
801215	09 540	1	01 01 01	33 329 N	118 315 W	04	20		2	02	1	2	1	5	11.83
801215	10 040	1	01 01 02	33 242 N	118 088 W	04	20		2	01	1	2	1	5	20.83
801215	10 120	1	01 01 03	33 125 N	118 151 W	04	20		2	10	1	2	1	5	12.83
801215	10 200	1	01 01 04	33 159 N	118 324 W	04	20		2	07	1	2	1	5	14.86
801215	10 340	1	01 01 05	33 329 N	118 457 W	04	20		2	06	2	2	1	5	20.30
801215	10 410	1	01 02 01	33 312 N	118 318 W	04	20		2	02	2	2	1	5	8.33
801215	10 530	1	01 02 02	33 233 N	118 117 W	04	20		2	02	2	2	1	5	18.53
801215	10 590	1	01 02 03	33 145 N	118 163 W	04	20		2	10	1	2	1	5	9.60
801215	11 060	1	01 02 04	33 176 N	118 312 W	04	20		2	08	1	2	1	5	12.83
801215	11 170	1	01 02 05	33 312 N	118 418 W	04	20		2	06	1	2	1	5	16.22
801215	11 250	1	01 03 01	33 295 N	118 322 W	04	20		2	03	2	2	1	5	4.83
801215	11 350	1	01 03 02	33 224 N	118 144 W	04	20		2	02	1	2	1	5	16.46
801215	11 380	1	01 03 03	33 166 N	118 176 W	04	20		2	11	1	2	1	5	6.38
801215	11 440	1	01 03 04	33 191 N	118 300 W	04	20		2	08	1	2	1	5	10.66
801215	11 530	1	01 03 05	33 295 N	118 380 W	04	20		2	06	1	2	1	5	12.35
801215	11 580	1	01 04 01	33 290 N	118 322 W	04	20		2	03	2	2	1	5	3.92
801215	12 040	1	01 04 02	33 248 N	118 220 W	04	20		2	02	1	2	1	5	9.49
801215	12 080	1	01 04 03	33 187 N	118 170 W	04	20		2	01	1	2	1	5	7.39
801215	12 090	1	01 04 04	33 175 N	118 196 W	04	20		2	10	1	2	1	5	2.48
801215	12 140	1	01 04 05	33 195 N	118 296 W	04	20		2	09	1	2	1	5	8.59
801215	12 170	1	01 04 06	33 248 N	118 295 W	04	20		2	07	1	2	1	5	5.30
801215	12 200	1	01 04 07	33 257 N	118 342 W	04	20		2	09	1	2	1	5	4.02
801215	12 220	1	01 04 08	33 290 N	118 369 W	04	20		2	08	1	2	1	5	3.99
801216	08 400	1	02 01 01	33 329 N	118 315 W	21	20		2	01	1	2	1	5	11.83
801216	08 530	1	02 01 02	33 242 N	118 088 W	21	20		2	01	1	2	1	5	20.83
801216	09 000	1	02 01 03	33 125 N	118 151 W	21	20		2	01	1	2	1	5	12.83
801216	09 080	1	02 01 04	33 159 N	118 324 W	21	20		2	07	1	2	1	5	14.86
801216	09 190	1	02 01 05	33 329 N	118 457 W	21	20		2	05	1	2	1	5	20.30
801216	09 270	1	02 02 01	33 312 N	118 318 W	21	20		2	02	1	2	1	5	8.33
801216	09 390	1	02 02 02	33 233 N	118 117 W	21	20		2	01	1	2	1	5	18.53
801216	09 450	1	02 02 03	33 145 N	118 163 W	21	20		2	10	1	2	1	5	9.60
801216	09 510	1	02 02 04	33 176 N	118 312 W	21	20		2	07	1	2	1	5	12.83
801216	10 020	1	02 02 05	33 312 N	118 418 W	21	20		2	07	1	2	1	5	16.22
801216	10 100	1	02 03 01	33 295 N	118 322 W	21	20		2	02	1	2	1	5	4.83
801216	10 190	1	02 03 02	33 224 N	118 144 W	21	20		2	02	1	2	1	5	16.46
801216	10 230	1	02 03 03	33 166 N	118 176 W	21	20		2	10	1	2	1	5	6.38
801216	10 300	1	02 03 04	33 191 N	118 300 W	21	20		2	08	1	2	1	5	10.66
801216	10 380	1	02 03 05	33 295 N	118 380 W	21	20		2	06	1	2	1	5	12.35
801216	10 460	1	02 04 01	33 290 N	118 322 W	21	20		2	02	1	2	1	5	3.92
801216	10 520	1	02 04 02	33 248 N	118 220 W	21	20		2	02	1	2	1	5	9.49
801216	10 560	1	02 04 03	33 187 N	118 170 W	21	20		2	01	1	2	1	5	7.39
801216	10 570	1	02 04 04	33 175 N	118 196 W	21	20		2	09	1	2	1	5	2.48
801216	11 010	1	02 04 05	33 195 N	118 296 W	21	20		2	08	1	2	1	5	8.59
801216	11 050	1	02 04 06	33 248 N	118 295 W	21	20		2	05	1	2	1	5	5.30
801216	11 070	1	02 04 07	33 257 N	118 342 W	21	20		2	08	1	2	1	5	4.02
801216	11 100	1	02 04 08	33 290 N	118 369 W	21	20		2	07	1	2	1	5	3.99

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left Right I O I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
801217	08 360	1	03 01 01	33 329 N 118 315 W	21 20		3 01	1	2	2	5	11.83
801217	08 470	1	03 01 02	33 242 N 118 088 W	21 20		3 01	1	2	2	5	20.83
801217	08 550	1	03 01 03	33 125 N 118 151 W	21 20		2 10	1	2	2	5	12.83
801217	09 050	1	03 01 04	33 159 N 118 324 W	21 20		2 07	1	2	2	5	14.86
801217	09 150	1	03 01 05	33 329 N 118 457 W	21 20		2 07	1	2	2	5	20.30
801217	09 230	1	03 02 01	33 312 N 118 318 W	21 20		2 02	1	2	2	5	8.33
801217	09 340	1	03 02 02	33 233 N 118 117 W	21 20		2 02	1	2	2	5	18.53
801217	09 390	1	03 02 03	33 145 N 118 163 W	21 20		2 10	1	2	2	5	9.60
801217	09 470	1	03 02 04	33 176 N 118 312 W	21 20		2 07	2	2	2	5	12.83
801217	09 580	1	03 02 05	33 312 N 118 418 W	21 20		2 06	2	2	1	5	16.22
801217	10 050	1	03 03 01	33 295 N 118 322 W	21 20		2 02	1	2	2	5	4.83
801217	10 150	1	03 03 02	33 224 N 118 144 W	21 20		2 02	1	1	2	5	16.46
801217	10 190	1	03 03 03	33 166 N 118 176 W	21 20		2 10	1	2	2	5	6.38
801217	10 250	1	03 03 04	33 191 N 118 300 W	21 20		2 08	2	2	2	5	10.66
801217	10 330	1	03 03 05	33 295 N 118 380 W	21 20		2 06	1	2	2	5	12.35
801217	10 390	1	03 04 01	33 290 N 118 322 W	21 20		2 02	2	2	2	5	3.92
801217	10 450	1	03 04 02	33 248 N 118 220 W	21 20		2 02	1	2	2	5	9.49
801217	10 490	1	03 04 03	33 187 N 118 170 W	21 20		2 01	1	2	2	5	7.39
801217	10 510	1	03 04 04	33 175 N 118 196 W	21 20		2 10	2	2	2	5	2.48
801217	10 560	1	03 04 05	33 195 N 118 296 W	21 20		2 08	1	2	2	5	8.59
801217	10 580	1	03 04 06	33 248 N 118 295 W	21 20		2 05	1	2	2	5	5.30
801217	11 010	1	03 04 07	33 257 N 118 342 W	21 20		2 08	1	2	2	5	4.02
801217	11 030	1	03 04 08	33 290 N 118 369 W	21 20		2 06	2	2	2	5	3.99
801218	09 180	1	04 01 01	33 329 N 118 315 W	22 20		5 13	2	2	4	5	11.83
801218	09 300	1	04 01 02	33 242 N 118 088 W	22 20		5 13	1	2	4	5	20.83
801218	09 380	1	04 01 03	33 125 N 118 151 W	22 20		5 13	1	2	4	5	12.83
801218	09 470	1	04 01 04	33 159 N 118 324 W	22 20		5 13	1	2	4	5	14.86
801218	09 570	1	04 01 05	33 329 N 118 457 W	22 20		5 13	2	2	4	5	20.30
801218	10 040	1	04 02 01	33 312 N 118 318 W	22 20		5 13	2	2	4	5	8.33
801218	10 160	1	04 02 02	33 233 N 118 117 W	22 20		5 13	1	2	4	5	18.53
801218	10 220	1	04 02 03	33 145 N 118 163 W	22 20		5 13	1	2	4	5	9.60
801218	10 280	1	04 02 04	33 176 N 118 312 W	22 20		5 13	2	2	4	5	12.83
801218	10 390	1	04 02 05	33 312 N 118 418 W	22 20		5 13	2	2	4	5	16.22
801218	10 510	1	04 03 01	33 295 N 118 322 W	22 20		5 13	1	2	4	5	4.83
801218	11 010	1	04 03 02	33 224 N 118 144 W	22 20		5 13	1	2	4	5	16.46
801218	11 050	1	04 03 03	33 166 N 118 176 W	22 20		2 10	1	2	3	5	6.38
801218	11 100	1	04 03 04	33 191 N 118 300 W	22 20			2	2	3	5	10.66
801218	11 190	1	04 03 05	33 295 N 118 380 W	22 20		5 13	2	2	4	5	12.35
801218	11 250	1	04 04 01	33 290 N 118 322 W	22 20		5 13	2	2	4	5	3.92
801218	11 290	1	04 04 02	33 248 N 118 220 W	22 20		5 13	1	2	4	5	9.49
801218	11 330	1	04 04 03	33 187 N 118 170 W	22 20		5 13	2	2	4	5	7.39
801218	11 370	1	04 04 04	33 175 N 118 196 W	22 20		5 13	1	2	4	5	2.48
801218	11 410	1	04 04 05	33 195 N 118 296 W	22 20		5 13	3	2	4	5	8.59
801218	11 440	1	04 04 06	33 248 N 118 295 W	22 20		5 13	1	2	4	5	5.30
801218	11 460	1	04 04 07	33 257 N 118 342 W	22 20		5 13	1	2	4	5	4.02
801218	11 490	1	04 04 08	33 290 N 118 369 W	22 20		5 13	1	2	4	5	3.99

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left Right I O I O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
810113	09 220	1	05 01 01	33 329 N	118 315 W	23	20		2	02	1	2	1	5	11.83
810113	09 340	1	05 01 02	33 242 N	118 088 W	23	20		2	01	2	2	1	5	20.83
810113	09 400	1	05 01 03	33 125 N	118 151 W	23	20		2	10	1	2	1	5	12.83
810113	09 500	1	05 01 04	33 159 N	118 324 W	23	20		2	07	1	2	1	5	14.86
810113	09 590	1	05 01 05	33 329 N	118 457 W	23	20		2	05	1	2	1	5	20.30
810113	10 080	1	05 02 01	33 312 N	118 318 W	23	20		2	02	2	2	1	5	8.33
810113	10 180	1	05 02 02	33 233 N	118 117 W	23	20		2	01	1	2	1	5	18.53
810113	10 240	1	05 02 03	33 145 N	118 163 W	23	20		2	10	2	2	1	5	9.60
810113	10 320	1	05 02 04	33 176 N	118 312 W	23	20		2	07	1	2	1	5	12.83
810113	10 420	1	05 02 05	33 312 N	118 418 W	23	20		2	06	1	2	1	5	16.22
810113	10 480	1	05 03 01	33 295 N	118 322 W	23	20		2	02	2	2	1	5	4.83
810113	10 580	1	05 03 02	33 224 N	118 144 W	23	20		2	01	1	2	1	5	16.46
810113	11 020	1	05 03 03	33 166 N	118 176 W	23	20		2	10	2	2	1	5	6.38
810113	11 100	1	05 03 04	33 191 N	118 300 W	23	20		2	08	2	2	1	5	10.66
810113	11 180	1	05 03 05	33 295 N	118 380 W	23	20		2	07	1	2	1	5	12.35
810113	11 210	1	05 04 01	33 290 N	118 322 W	23	20		2	02	2	2	1	5	3.92
810113	11 260	1	05 04 02	33 248 N	118 220 W	23	20		2	02	1	2	1	5	9.49
810113	11 300	1	05 04 03	33 187 N	118 170 W	23	20		2	01	1	2	1	5	7.39
810113	11 330	1	05 04 04	33 175 N	118 196 W	23	20		2	10	2	2	1	5	2.48
810113	11 370	1	05 04 05	33 195 N	118 296 W	23	20		2	08	1	2	1	5	8.59
810113	11 400	1	05 04 06	33 248 N	118 295 W	23	20		2	06	1	2	1	5	5.30
810113	11 430	1	05 04 07	33 257 N	118 342 W	23	20		2	09	1	2	1	5	4.02
810113	11 450	1	05 04 08	33 290 N	118 369 W	23	20		2	07	2	2	1	5	3.99
810115	10 540	1	06 01 01	33 329 N	118 315 W	24	25		2	02	2	1	1	5	11.83
810115	11 070	1	06 01 02	33 242 N	118 088 W	24	25		2	02	2	1	2	5	20.83
810115	11 140	1	06 01 03	33 125 N	118 151 W	24	25		1	11	1	1	2	5	12.83
810115	11 220	1	06 01 04	33 159 N	118 324 W	24	25		1	08	1	1	2	5	14.86
810115	11 340	1	06 01 05	33 329 N	118 457 W	24	25		1	06	1	1	2	5	20.30
810115	11 410	1	06 02 01	33 312 N	118 318 W	24	25		1	03	2	1	2	5	8.33
810115	11 520	1	06 02 02	33 233 N	118 117 W	24	25		1	02	2	1	2	5	18.53
810115	11 580	1	06 02 03	33 145 N	118 163 W	24	25		1	11	1	1	2	5	9.60
810115	12 050	1	06 02 04	33 176 N	118 312 W	24	25		1	08	1	1	2	5	12.83
810115	12 160	1	06 02 05	33 312 N	118 418 W	24	25		1	07	1	1	1	5	16.22
810115	12 230	1	06 03 01	33 295 N	118 322 W	24	25		1	03	1	1	2	5	4.83
810115	12 330	1	06 03 02	33 224 N	118 144 W	24	25		1	02	2	1	2	5	16.46
810115	12 370	1	06 03 03	33 166 N	118 176 W	24	25		1	11	1	1	2	5	6.38
810115	12 430	1	06 03 04	33 191 N	118 300 W	24	25		1	09	1	1	2	5	10.66
810115	12 510	1	06 03 05	33 295 N	118 380 W	24	25		1	08	1	1	1	5	12.35
810115	12 550	1	06 04 01	33 290 N	118 322 W	24	25		1	03	1	1	2	5	3.92
810115	13 010	1	06 04 02	33 248 N	118 220 W	24	25		1	02	1	1	2	5	9.49
810115	13 050	1	06 04 03	33 187 N	118 170 W	24	25		1	02	1	1	2	5	7.39
810115	13 080	1	06 04 04	33 175 N	118 196 W	24	25		1	09	1	1	1	5	2.48
810115	13 130	1	06 04 05	33 195 N	118 296 W	24	25		1	10	1	1	1	5	8.59
810115	13 150	1	06 04 06	33 248 N	118 295 W	24	25		1	07	1	1	2	5	5.30
810115	13 170	1	06 04 07	33 257 N	118 342 W	24	25		1	10	1	1	2	5	4.02
810115	13 210	1	06 04 08	33 290 N	118 369 W	24	25		1	08	1	1	2	5	3.99

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left Right I O I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
810116	09 230	1	07 01 01	33 329 N 118 315 W	24 25		2 02	1	2	3	5	11.83
810116	09 370	1	07 01 02	33 242 N 118 088 W	24 25		2 01	2	2	3	5	20.83
810116	09 450	1	07 01 03	33 125 N 118 151 W	24 25		2 10	1	2	3	5	12.83
810116	09 470	1	07 01 04	33 134 N 118 193 W	24 25		2 07	1	2	3	5	3.62
810116	09 560	1	07 01 04	33 159 N 118 324 W	24 25		2 07	1	2	3	5	11.23
810116	10 080	1	07 01 05	33 329 N 118 457 W	24 25		2 06	1	2	3	5	20.30
810116	10 160	1	07 02 01	33 312 N 118 318 W	24 25		2 02	1	2	3	5	8.33
810116	10 260	1	07 02 02	33 233 N 118 117 W	24 25		2 02	1	2	3	5	18.53
810116	10 320	1	07 02 03	33 145 N 118 163 W	24 25		2 10	1	2	3	5	9.60
810116	10 400	1	07 02 04	33 176 N 118 312 W	24 25		2 08	1	2	3	5	12.83
810116	10 500	1	07 02 05	33 312 N 118 418 W	24 25		2 06	1	2	3	5	16.22
810116	10 580	1	07 03 01	33 295 N 118 322 W	24 25		2 02	1	2	3	5	4.83
810116	11 060	1	07 03 02	33 224 N 118 144 W	24 25		2 02	1	2	3	5	16.46
810116	11 110	1	07 03 03	33 166 N 118 176 W	24 25		1 11	1	2	3	5	6.38
810116	11 180	1	07 03 04	33 191 N 118 300 W	24 25		1 08	1	2	2	5	10.66
810116	11 250	1	07 03 05	33 295 N 118 380 W	24 25		1 07	1	2	2	5	12.35
810116	11 310	1	07 04 01	33 290 N 118 322 W	24 25		1 03	1	2	2	5	3.92
810116	11 370	1	07 04 02	33 248 N 118 220 W	24 25		1 02	1	2	2	5	9.49
810116	11 410	1	07 04 03	33 187 N 118 170 W	24 25		1 01	1	2	2	5	7.39
810116	11 430	1	07 04 04	33 175 N 118 196 W	24 25		1 11	1	2	2	5	2.48
810116	11 470	1	07 04 05	33 195 N 118 296 W	24 25		1 08	1	2	2	5	8.59
810116	11 490	1	07 04 06	33 248 N 118 295 W	24 25		1 05	1	2	2	5	5.30
810116	11 530	1	07 04 07	33 257 N 118 342 W	24 25		1 09	1	2	2	5	4.02
810116	11 550	1	07 04 08	33 290 N 118 369 W	24 25		1 07	1	2	2	5	3.99
810117	09 250	1	08 01 01	33 329 N 118 315 W	24 25		2 02	3	1	2	5	11.83
810117	09 360	1	08 01 02	33 242 N 118 088 W	24 25		2 01	3	1	2	5	20.83
810117	09 430	1	08 01 03	33 125 N 118 151 W	24 25		2 10	3	1	2	5	12.83
810117	09 530	1	08 01 04	33 159 N 118 324 W	24 25		2 07	3	1	2	5	14.86
810117	10 050	1	08 01 05	33 329 N 118 457 W	24 25		2 05	3	1	2	5	20.30
810117	10 130	1	08 02 01	33 312 N 118 318 W	24 25		2 02	3	1	2	5	8.33
810117	10 230	1	08 02 02	33 233 N 118 117 W	24 25		2 01	2	1	2	5	18.53
810117	10 290	1	08 02 03	33 145 N 118 163 W	24 25		2 10	3	1	2	5	9.60
810117	10 370	1	08 02 04	33 176 N 118 312 W	24 25		2 07	2	1	2	5	12.83
810117	10 470	1	08 02 05	33 312 N 118 418 W	24 25		2 06	3	1	2	5	16.22
810117	10 540	1	08 03 01	33 295 N 118 322 W	24 25		2 02	2	1	2	5	4.83
810117	11 030	1	08 03 02	33 224 N 118 144 W	24 25		2 02	2	1	2	5	16.46
810117	11 070	1	08 03 03	33 166 N 118 176 W	24 25		2 10	3	1	2	5	6.38
810117	11 140	1	08 03 04	33 191 N 118 300 W	24 25		2 08	2	1	2	5	10.66
810117	11 230	1	08 03 05	33 295 N 118 380 W	24 25		2 06	3	1	2	5	12.35
810117	11 270	1	08 04 01	33 290 N 118 322 W	24 25		2 02	2	1	2	5	3.92
810117	11 330	1	08 04 02	33 248 N 118 220 W	24 25		2 02	2	1	2	5	9.49
810117	11 350	1	08 04 03	33 187 N 118 170 W	24 25		2 01	3	1	2	5	7.39
810117	11 380	1	08 04 04	33 175 N 118 196 W	24 25		2 10	2	1	2	5	2.48
810117	11 430	1	08 04 05	33 195 N 118 296 W	24 25		2 09	2	1	2	5	8.59
810117	11 460	1	08 04 06	33 248 N 118 295 W	24 25		2 06	2	1	2	5	5.30
810117	11 490	1	08 04 07	33 257 N 118 342 W	24 25		2 09	3	1	2	5	4.02

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
810117	11 510	1	08 04 08	33 290 N	118 369 W	24	25					2	07	3	1	2	5	3.99
810223	10 020	1	09 01 01	33 329 N	118 315 W	20	26					2	02	3	2	1	5	11.83
810223	10 160	1	09 01 02	33 242 N	118 088 W	20	26					2	01	3	2	1	5	20.83
810223	10 240	1	09 01 03	33 125 N	118 151 W	20	26					2	10	2	2	1	5	12.83
810223	10 340	1	09 01 04	33 159 N	118 324 W	20	26					2	07	4	2	1	5	14.86
810223	10 440	1	09 01 05	33 329 N	118 457 W	20	26					2	06	3	2	1	5	20.30
810223	10 520	1	09 02 01	33 312 N	118 318 W	20	26					2	02	2	2	1	5	8.33
810223	11 030	1	09 02 02	33 233 N	118 117 W	20	26					2	02	3	2	1	5	18.53
810223	11 070	1	09 02 03	33 145 N	118 163 W	20	26					2	10	1	2	1	5	9.60
810223	11 150	1	09 02 04	33 176 N	118 312 W	20	26					2	07	4	2	1	5	12.83
810223	11 260	1	09 02 05	33 312 N	118 418 W	20	26					2	06	3	2	1	5	16.22
810223	11 320	1	09 03 01	33 295 N	118 322 W	20	26					2	03	2	2	1	5	4.83
810223	11 420	1	09 03 02	33 224 N	118 144 W	20	26					2	02	3	2	1	5	16.46
810223	11 450	1	09 03 03	33 166 N	118 176 W	20	26					1	11	1	2	1	5	6.38
810223	11 550	1	09 03 04	33 191 N	118 300 W	20	26					1	08	3	2	1	5	10.66
810223	12 040	1	09 03 05	33 295 N	118 380 W	20	26					1	06	3	2	1	5	12.35
810223	12 100	1	09 04 01	33 290 N	118 322 W	20	26					1	03	2	2	1	5	3.92
810223	12 150	1	09 04 02	33 248 N	118 220 W	20	26					1	02	3	2	1	5	9.49
810223	12 190	1	09 04 03	33 187 N	118 170 W	20	26					1	02	2	2	1	5	7.39
810223	12 210	1	09 04 04	33 175 N	118 196 W	20	26					1	11	2	2	1	5	2.48
810223	12 250	1	09 04 05	33 195 N	118 296 W	20	26					1	09	4	2	1	5	8.59
810223	12 280	1	09 04 06	33 248 N	118 295 W	20	26					1	07	3	2	1	5	5.30
810223	12 320	1	09 04 07	33 257 N	118 342 W	20	26					1	11	3	2	1	5	4.02
810223	12 350	1	09 04 08	33 290 N	118 369 W	20	26					1	07	3	2	1	5	3.99
810224	08 460	1	10 01 01	33 329 N	118 315 W	20	26					2	01	1	2	4	5	11.83
810224	08 580	1	10 01 02	33 242 N	118 088 W	20	26					2	01	1	2	3	5	20.83
810224	09 040	1	10 01 03	33 125 N	118 151 W	20	26					5	13	1	2	4	5	12.83
810224	09 120	1	10 01 04	33 159 N	118 324 W	20	26					5	13	1	2	4	5	14.86
810224	09 240	1	10 01 05	33 329 N	118 457 W	20	26					2	05	2	2	4	5	20.30
810224	09 310	1	10 02 01	33 312 N	118 318 W	20	26					2	02	2	2	4	5	8.33
810224	09 410	1	10 02 02	33 233 N	118 117 W	20	26					2	01	1	2	4	5	18.53
810224	09 470	1	10 02 03	33 145 N	118 163 W	20	26					2	10	1	2	4	5	9.60
810224	09 530	1	10 02 04	33 176 N	118 312 W	20	26					5	13	1	2	4	5	12.83
810224	10 040	1	10 02 05	33 312 N	118 418 W	20	26					5	13	1	2	4	5	16.22
810224	10 100	1	10 03 01	33 295 N	118 322 W	20	26					2	02	2	2	5	5	4.83
810224	10 200	1	10 03 02	33 224 N	118 144 W	20	26					2	01	1	2	4	5	16.46
810224	10 240	1	10 03 03	33 166 N	118 176 W	20	26					2	10	1	2	4	5	6.38
810224	10 300	1	10 03 04	33 191 N	118 300 W	20	26					5	13	1	2	4	5	10.66
810224	10 390	1	10 03 05	33 295 N	118 380 W	20	26					5	13	1	2	4	5	12.35
810224	10 430	1	10 04 01	33 290 N	118 322 W	20	26					5	13	1	2	5	5	3.92
810224	10 480	1	10 04 02	33 248 N	118 220 W	20	26					5	13	2	2	4	5	9.49
810224	10 530	1	10 04 03	33 187 N	118 170 W	20	26					2	02	2	2	3	5	7.39
810224	10 550	1	10 04 04	33 175 N	118 196 W	20	26					2	09	1	2	4	5	2.48
810224	10 590	1	10 04 05	33 195 N	118 296 W	20	26					5	13	1	2	4	5	8.59
810224	11 020	1	10 04 06	33 248 N	118 295 W	20	26					2	04	1	2	3	5	5.30
810224	11 050	1	10 04 07	33 257 N	118 342 W	20	26					5	13	2	2	4	5	4.02

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
810224	11 070	1	10 04 08	33 290 N	118 369 W	20	26							2	2	3	5	3.99
810226	08 480	1	11 01 01	33 329 N	118 315 W	20	27					2	02	3	2	2	5	11.83
810226	09 000	1	11 01 02	33 242 N	118 088 W	20	27					2	01	3	2	2	5	20.83
810226	09 080	1	11 01 03	33 125 N	118 151 W	20	27					2	09	3	2	1	5	12.83
810226	09 160	1	11 01 04	33 159 N	118 324 W	20	27					2	06	3	2	1	5	14.86
810226	09 270	1	11 01 05	33 329 N	118 457 W	20	27					2	05	3	2	1	5	20.30
810226	09 350	1	11 02 01	33 312 N	118 318 W	20	27					2	02	3	2	2	5	8.33
810226	09 450	1	11 02 02	33 233 N	118 117 W	20	27					2	01	3	2	1	5	18.53
810226	09 510	1	11 02 03	33 145 N	118 163 W	20	27					2	10	3	2	1	5	9.60
810226	09 580	1	11 02 04	33 176 N	118 312 W	20	27					2	06	3	2	1	5	12.83
810226	10 080	1	11 02 05	33 312 N	118 418 W	20	27					2	05	3	2	1	5	16.22
810226	10 140	1	11 03 01	33 295 N	118 322 W	20	27					2	02	3	2	1	5	4.83
810226	10 230	1	11 03 02	33 224 N	118 144 W	20	27					2	01	3	2	1	5	16.46
810226	10 270	1	11 03 03	33 166 N	118 176 W	20	27					2	10	4	2	1	5	6.38
810226	10 301	1	11 03 04	33 175 N	118 223 W	20	27					2	06	3	2	1	5	4.03
810226	10 350	1	11 03 04	33 191 N	118 300 W	20	27					2	06	3	2	1	5	6.63
810226	10 430	1	11 03 05	33 295 N	118 380 W	20	27					2	05	3	2	1	5	12.35
810226	10 490	1	11 04 01	33 290 N	118 322 W	20	27					2	03	3	2	1	5	3.92
810226	10 580	1	11 04 02	33 248 N	118 220 W	20	27					1	02	3	2	1	5	9.49
810226	11 010	1	11 04 03	33 187 N	118 170 W	20	27					1	01	3	2	1	5	7.39
810226	11 030	1	11 04 04	33 175 N	118 196 W	20	27					1	09	3	2	1	5	2.48
810226	11 080	1	11 04 05	33 195 N	118 296 W	20	27					1	07	2	2	1	5	8.59
810226	11 110	1	11 04 06	33 248 N	118 295 W	20	27					1	05	3	2	1	5	5.30
810226	11 140	1	11 04 07	33 257 N	118 342 W	20	27					1	09	2	2	1	5	4.02
810226	11 170	1	11 04 08	33 290 N	118 369 W	20	27					1	06	3	2	1	5	3.99
810227	09 150	1	12 01 01	33 329 N	118 315 W	27	26					2	02	2	2	1	5	11.83
810227	09 260	1	12 01 02	33 242 N	118 088 W	27	26					2	01	2	2	1	5	20.83
810227	09 330	1	12 01 03	33 125 N	118 151 W	27	26					2	10	2	2	1	5	12.83
810227	09 410	1	12 01 04	33 159 N	118 324 W	27	26					2	07	3	2	1	5	14.86
810227	09 520	1	12 01 05	33 329 N	118 457 W	27	26					2	05	2	2	1	5	20.30
810227	09 590	1	12 02 01	33 312 N	118 318 W	27	26					1	02	2	2	1	5	8.33
810227	10 100	1	12 02 02	33 233 N	118 117 W	27	26					1	01	2	2	1	5	18.53
810227	10 150	1	12 02 03	33 145 N	118 163 W	27	26					1	10	2	2	1	5	9.60
810227	10 220	1	12 02 04	33 176 N	118 312 W	27	26					1	07	2	2	1	5	12.83
810227	10 320	1	12 02 05	33 312 N	118 418 W	27	26					1	05	2	2	1	5	16.22
810227	10 390	1	12 03 01	33 295 N	118 322 W	27	26					1	02	2	2	1	5	4.83
810227	10 480	1	12 03 02	33 224 N	118 144 W	27	26					1	02	2	2	1	5	16.46
810227	10 510	1	12 03 03	33 166 N	118 176 W	27	26					1	11	2	2	1	5	6.38
810227	10 560	1	12 03 04	33 191 N	118 300 W	27	26					1	06	1	2	1	5	10.66
810227	11 050	1	12 03 05	33 295 N	118 380 W	27	26					1	05	2	2	1	5	12.35
810227	11 100	1	12 04 01	33 290 N	118 322 W	27	26					1	03	2	2	1	5	3.92
810227	11 150	1	12 04 02	33 248 N	118 220 W	27	26					1	03	2	2	1	5	9.49
810227	11 190	1	12 04 03	33 187 N	118 170 W	27	26					1	12	2	2	1	5	7.39
810227	11 210	1	12 04 04	33 175 N	118 196 W	27	26					1	10	2	2	1	5	2.48
810227	11 250	1	12 04 05	33 195 N	118 296 W	27	26					1	08	2	2	1	5	8.59
810227	11 280	1	12 04 06	33 248 N	118 295 W	27	26					1	04	2	2	1	5	5.30

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left Right I O I O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
810227	11 300	1	12 04 07	33 257 N	118 342 W	27	26		1	08	2	2	1	5	4.02
810227	11 330	1	12 04 08	33 290 N	118 369 W	27	26		1	06	2	2	1	5	3.99
810323	11 540	1	13 01 01	33 329 N	118 315 W	22	26		1	03	2	2	2	5	11.83
810323	12 050	1	13 01 02	33 242 N	118 088 W	22	26		1	03	2	2	2	5	20.83
810323	12 130	1	13 01 03	33 125 N	118 151 W	22	26		1	12	2	2	2	5	12.83
810323	12 220	1	13 01 04	33 159 N	118 324 W	22	26		1	09	3	2	2	5	14.86
810323	12 330	1	13 01 05	33 329 N	118 457 W	22	26		1	09	2	2	2	5	20.30
810323	12 400	1	13 02 01	33 312 N	118 318 W	22	26		1	03	2	2	2	5	8.33
810323	12 500	1	13 02 02	33 233 N	118 117 W	22	26		1	03	2	2	2	5	18.53
810323	12 540	1	13 02 03	33 145 N	118 163 W	22	26		1	12	2	2	2	5	9.60
810323	13 020	1	13 02 04	33 176 N	118 312 W	22	26		1	09	2	2	2	5	12.83
810323	13 120	1	13 02 05	33 312 N	118 418 W	22	26		1	09	2	2	2	5	16.22
810323	13 190	1	13 03 01	33 295 N	118 322 W	22	26		1	03	2	2	1	5	4.83
810323	13 270	1	13 03 02	33 224 N	118 144 W	22	26		1	03	3	2	1	5	16.46
810323	13 310	1	13 03 03	33 166 N	118 176 W	22	26		1	12	2	2	3	5	6.38
810323	13 370	1	13 03 04	33 191 N	118 300 W	22	26		1	11	3	2	1	5	10.66
810323	13 470	1	13 03 05	33 295 N	118 380 W	22	26		1	09	2	2	2	5	12.35
810323	13 520	1	13 04 01	33 290 N	118 322 W	22	26		1	03	3	2	2	5	3.92
810323	13 570	1	13 04 02	33 248 N	118 220 W	22	26		1	03	3	2	1	5	9.49
810323	14 000	1	13 04 03	33 187 N	118 170 W	22	26		1	03	2	2	1	5	7.39
810323	14 020	1	13 04 04	33 175 N	118 196 W	22	26		1	12	2	2	1	5	2.48
810323	14 070	1	13 04 05	33 195 N	118 296 W	22	26		1	11	4	2	1	5	8.59
810323	14 100	1	13 04 06	33 248 N	118 295 W	22	26		1	07	2	2	2	5	5.30
810323	14 130	1	13 04 07	33 257 N	118 342 W	22	26		1	11	2	2	1	5	4.02
810323	14 150	1	13 04 08	33 290 N	118 369 W	22	26		1	09	2	2	2	5	3.99
810324	09 200	1	14 01 01	33 329 N	118 315 W	26	28		2	02	2	2	2	5	11.83
810324	09 320	1	14 01 02	33 242 N	118 088 W	26	28		2	01	2	2	2	5	20.83
810324	09 400	1	14 01 03	33 125 N	118 151 W	26	28		1	10	1	2	3	5	12.83
810324	09 480	1	14 01 04	33 159 N	118 324 W	26	28		2	07	1	2	2	5	14.86
810324	09 590	1	14 01 05	33 329 N	118 457 W	26	28		2	05	2	2	2	5	20.30
810324	10 070	1	14 02 01	33 312 N	118 318 W	26	28		1	02	2	2	2	5	8.33
810324	10 170	1	14 02 02	33 233 N	118 117 W	26	28		1	01	2	2	1	5	18.53
810324	10 230	1	14 02 03	33 145 N	118 163 W	26	28		1	01	1	2	2	5	9.60
810324	10 290	1	14 02 04	33 176 N	118 312 W	26	28		1	07	2	2	2	5	12.83
810324	10 400	1	14 02 05	33 312 N	118 418 W	26	28		1	05	1	2	2	5	16.22
810324	10 470	1	14 03 01	33 295 N	118 322 W	26	28		1	02	2	2	2	5	4.83
810324	10 570	1	14 03 02	33 224 N	118 144 W	26	28		1	02	2	2	1	5	16.46
810324	11 000	1	14 03 03	33 166 N	118 176 W	26	28		1	11	1	2	2	5	6.38
810324	11 050	1	14 03 04	33 191 N	118 300 W	26	28		1	06	2	2	2	5	10.66
810324	11 130	1	14 03 05	33 295 N	118 380 W	26	28		1	05	2	2	2	5	12.35
810324	11 190	1	14 04 01	33 290 N	118 322 W	26	28		1	03	2	2	1	5	3.92
810324	11 250	1	14 04 02	33 248 N	118 220 W	26	28		1	02	2	2	1	5	9.49
810324	11 290	1	14 04 03	33 187 N	118 170 W	26	28		1	12	1	2	1	5	7.39
810324	11 310	1	14 04 04	33 175 N	118 196 W	26	28		1	11	1	2	1	5	2.48
810324	11 350	1	14 04 05	33 195 N	118 296 W	26	28		1	06	1	2	1	5	8.59
810324	11 390	1	14 04 06	33 248 N	118 295 W	26	28		1	05	1	2	1	5	5.30

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
810324	11 410	1	14 04 07	33 257 N	118 342 W	26	28					1	09	1	2	1	5	4.02
810324	11 440	1	14 04 08	33 290 N	118 369 W	26	28					1	06	2	2	1	5	3.99
810325	10 570	1	15 01 01	33 329 N	118 315 W	26	28					1	02	2	2	2	5	11.83
810325	11 090	1	15 01 02	33 242 N	118 088 W	26	28					1	01	2	2	3	5	20.83
810325	11 160	1	15 01 03	33 125 N	118 151 W	26	28					1	11	1	2	3	5	12.83
810325	11 240	1	15 01 04	33 159 N	118 324 W	26	28					1	10	2	2	3	5	14.86
810325	11 350	1	15 01 05	33 329 N	118 457 W	26	28					1	08	2	2	2	5	20.30
810325	11 430	1	15 02 01	33 312 N	118 318 W	26	28					1	03	2	2	2	5	8.33
810325	11 530	1	15 02 02	33 233 N	118 117 W	26	28					1	02	2	2	2	5	18.53
810325	11 590	1	15 02 03	33 145 N	118 163 W	26	28					1	11	1	2	3	5	9.60
810325	12 060	1	15 02 04	33 176 N	118 312 W	26	28					1	09	1	2	3	5	12.83
810325	12 170	1	15 02 05	33 312 N	118 418 W	26	28					1	08	2	2	2	5	16.22
810325	12 230	1	15 03 01	33 295 N	118 322 W	26	28					1	03	2	2	1	5	4.83
810325	12 310	1	15 03 02	33 224 N	118 144 W	26	28					1	02	2	2	2	5	16.46
810325	12 360	1	15 03 03	33 166 N	118 176 W	26	28					1	12	1	2	3	5	6.38
810325	12 420	1	15 03 04	33 191 N	118 300 W	26	28					1	10	3	2	2	5	10.66
810325	12 500	1	15 03 05	33 295 N	118 380 W	26	28					1	08	2	2	1	5	12.35
810325	12 550	1	15 04 01	33 290 N	118 322 W	26	28					1	03	2	2	1	5	3.92
810325	13 000	1	15 04 02	33 248 N	118 220 W	26	28					1	03	2	2	1	5	9.49
810325	13 030	1	15 04 03	33 187 N	118 170 W	26	28					1	02	2	2	2	5	7.39
810325	13 060	1	15 04 04	33 175 N	118 196 W	26	28					1	11	3	2	2	5	2.48
810325	13 110	1	15 04 05	33 195 N	118 296 W	26	28					1	11	3	2	2	5	8.59
810325	13 140	1	15 04 06	33 248 N	118 295 W	26	28					1	08	2	2	1	5	5.30
810325	13 170	1	15 04 07	33 257 N	118 342 W	26	28					1	10	2	2	1	5	4.02
810325	13 190	1	15 04 08	33 290 N	118 369 W	26	28					1	08	2	2	1	5	3.99
821213	11 090	1	16 01 01	33 329 N	118 315 W	10	13	1	1	3	3	2	02	3	2	1	1	11.83
821213	11 240	1	16 01 02	33 242 N	118 088 W	10	13	1	1	2	2	2	02	2	2	1	2	20.83
821213	11 300	1	16 01 03	33 125 N	118 151 W	10	13	3	3	1	2	2	10	2	2	1	2	12.83
821213	11 380	1	16 01 04	33 159 N	118 324 W	10	13	3	3	2	2	2	09	2	2	1	2	14.86
821213	11 520	1	16 01 05	33 329 N	118 457 W	10	13	1	2	1	1	2	07	2	2	1	2	20.30
821213	12 010	1	16 02 01	33 312 N	118 318 W	10	13	1	1	3	3	2	03	2	2	1	2	8.33
821213	12 130	1	16 02 02	33 233 N	118 117 W	10	13	1	1	3	3	2	02	2	2	1	2	18.53
821213	12 190	1	16 02 03	33 145 N	118 163 W	10	13	2	2	2	2	2	11	2	2	1	2	9.60
821213	12 270	1	16 02 04	33 176 N	118 312 W	10	13	3	3	2	2	2	09	2	2	1	2	12.83
821213	12 400	1	16 02 05	33 312 N	118 418 W	10	13	2	2	2	2	2	07	3	2	1	2	16.22
821213	12 500	1	16 03 01	33 295 N	118 322 W	10	13	2	2	3	3	2	03	2	2	1	2	4.83
821213	12 598	1	16 03 02	33 224 N	118 144 W	10	13	1	1	3	3	2	03	2	2	1	2	16.46
821213	13 038	1	16 03 03	33 166 N	118 176 W	10	13	2	2	2	2	2	11	3	2	1	2	6.38
821213	13 065	1	16 03 04	33 174 N	118 221 W	10	13	3	3	2	2	2	10	2	2	1	2	3.84
821213	13 124	1	16 03 04	33 191 N	118 300 W	10	13	3	3	2	2	2	10	2	2	1	2	6.81
821213	13 210	1	16 03 05	33 295 N	118 380 W	10	13	3	3	1	1	2	08	3	2	1	2	12.35
821213	13 283	1	16 04 01	33 290 N	118 322 W	10	13	2	2	3	3	2	04	2	2	1	2	3.92
821213	13 345	1	16 04 02	33 248 N	118 220 W	10	13	2	2	3	3	2	03	2	2	1	2	9.49
821213	13 380	1	16 04 03	33 187 N	118 170 W	10	13	1	1	3	3	2	02	2	2	1	2	7.39
821213	13 395	1	16 04 04	33 175 N	118 196 W	10	13	2	2	2	2	2	11	2	2	1	2	2.48
821213	13 458	1	16 04 05	33 195 N	118 296 W	10	13	3	3	1	1	2	10	2	2	1	2	8.59

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
821213	13 490	1	16 04 06	33 248 N 118 295 W	10 13	2 2	2 2	2 06	3	2	1	2	5.30
821213	13 520	1	16 04 07	33 257 N 118 342 W	10 13	3 3	2 2	2 10	3	2	1	2	4.02
821213	13 547	1	16 04 08	33 290 N 118 369 W	10 13	2 2	2 2	2 09	3	2	1	2	3.99
821214	11 025	1	17 01 01	33 329 N 118 315 W	10 13	2 2	3 3	2 02	2	1	2	2	11.83
821214	11 163	1	17 01 02	33 242 N 118 088 W	10 13	2 2	2 2	2 01	1	1	2	2	20.83
821214	11 206	1	17 01 03	33 161 N 118 133 W	10 13	2 2	2 2	2 12	2	1	2	2	8.92
821214	11 248	1	17 01 03	33 125 N 118 151 W	10 13	2 2	2 2	2 12	2	1	2	2	3.90
821214	11 348	1	17 01 04	33 159 N 118 324 W	10 13	3 3	2 2	2 09	1	1	2	2	14.86
821214	11 487	1	17 01 05	33 329 N 118 457 W	10 13	2 2	2 2	2 07	1	1	2	2	20.30
821214	11 577	1	17 02 01	33 312 N 118 318 W	10 13	2 2	3 3	2 03	2	1	2	2	8.33
821214	12 054	1	17 02 02	33 266 N 118 211 W	10 13	2 2	2 2	2 02	1	1	2	2	10.04
821214	12 130	1	17 02 02	33 233 N 118 117 W	10 13	2 2	2 2	2 02	1	1	2	2	8.51
821214	12 195	1	17 02 03	33 145 N 118 163 W	10 13	2 2	2 2	2 11	1	1	2	2	9.60
821214	12 247	1	17 02 04	33 163 N 118 241 W	10 13	3 3	2 2	2 09	1	1	2	2	6.76
821214	12 290	1	17 02 04	33 176 N 118 312 W	10 13	3 3	2 2	2 09	1	1	2	2	6.07
821214	12 411	1	17 02 05	33 312 N 118 418 W	10 13	2 2	2 2	2 08	1	1	2	2	16.22
821214	12 491	1	17 03 01	33 295 N 118 322 W	10 13	2 2	3 3	2 03	2	1	2	2	4.83
821214	13 000	1	17 03 02	33 224 N 118 144 W	10 13	2 2	3 3	2 02	1	1	2	2	16.46
821214	13 047	1	17 03 03	33 166 N 118 176 W	10 13	2 2	1 1	2 12	1	1	2	2	6.38
821214	13 078	1	17 03 04	33 180 N 118 234 W	10 13	3 3	1 1	2 09	1	1	2	2	5.04
821214	13 117	1	17 03 04	33 184 N 118 265 W	10 13	3 3	1 1	2 09	1	1	2	2	2.62
821214	13 203	1	17 03 04	33 191 N 118 300 W	10 13	3 3	1 1	2 09	1	1	2	2	3.00
821214	13 295	1	17 03 05	33 295 N 118 380 W	10 13	2 2	1 1	2 09	2	1	2	2	12.35
821214	13 349	1	17 04 01	33 290 N 118 322 W	10 13	1 1	3 3	2 03	2	1	2	2	3.92
821214	13 415	1	17 04 02	33 248 N 118 220 W	10 13	1 1	3 3	2 03	2	1	2	2	9.49
821214	13 466	1	17 04 03	33 187 N 118 170 W	10 13	1 1	2 2	2 02	1	1	2	2	7.39
821214	13 482	1	17 04 04	33 175 N 118 196 W	10 13	2 2	1 1	2	1	1	2	2	2.48
821214	13 545	1	17 04 05	33 195 N 118 296 W	10 13	3 3	1 1	2 10	1	1	2	2	8.59
821214	13 582	1	17 04 06	33 248 N 118 295 W	10 13	1 1	1 1	2 07	1	1	2	2	5.30
821214	14 015	1	17 04 07	33 257 N 118 342 W	10 13	2 2	1 1	2 10	1	1	2	2	4.02
821214	14 048	1	17 04 08	33 290 N 118 369 W	10 13	2 2	1 1	2 09	2	1	2	2	3.99
821215	10 420	1	18 01 01	33 375 N 118 358 W	10 13	1 1	2 3	2 04	1	2	3	1	13.45
821215	10 540	1	18 02 01	33 261 N 118 453 W	10 13	1 2	1 1	2 10	1	2	3	1	13.49
821215	11 059	1	18 03 01	33 333 N 118 305 W	10 13	1 1	2 3	2 04	1	2	3	1	13.36
821215	11 118	1	18 04 01	33 285 N 118 346 W	10 13	1 2	1 1	2 11	1	2	3	1	6.68
821215	11 185	1	18 05 01	33 334 N 118 262 W	10 13	1 1	1 2	2 04	1	2	3	1	6.94
821215	11 247	1	18 06 01	33 275 N 118 308 W	10 13	1 2	1 1	2 10	1	2	3	1	6.65
821215	11 308	1	18 07 01	33 316 N 118 232 W	10 13	1 1	1 2	2 04	2	2	3	1	6.75
821215	11 369	1	18 08 01	33 261 N 118 273 W	10 13	1 2	1 1	2 11	1	2	3	1	6.67
821215	11 433	1	18 09 01	33 309 N 118 196 W	10 13	1 1	1 2	2 05	1	2	3	1	7.17
821215	11 500	1	18 10 01	33 250 N 118 236 W	10 13	1 2	1 1	2 11	1	2	3	1	6.84
821215	11 562	1	18 11 01	33 295 N 118 162 W	10 13	1 1	1 2	2 05	1	2	3	1	7.19
821215	12 030	1	18 12 01	33 227 N 118 213 W	10 13	1 2	1 1	2 10	1	2	3	1	6.77
821215	12 086	1	18 13 01	33 270 N 118 141 W	10 13	1 1	1 2	2 05	1	2	3	1	7.34
821215	12 145	1	18 14 01	33 204 N 118 188 W	10 13	1 2	1 1	2 11	1	2	3	1	6.85
821215	12 210	1	18 15 01	33 244 N 118 118 W	10 13	1 1	1 2	2 05	1	2	3	1	7.92

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver.	Sun Position Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
821215	12 322	1	18 16 01	33 125 N 118 232 W	10 13	1 2	1 1	2	11	1	2	3	1	14.27
821215	12 414	1	18 17 01	33 171 N 118 129 W	10 13	1 1	1 1	2	05	1	2	3	1	9.00
821215	12 482	1	18 17 01	33 207 N 118 088 W	10 13	1 1	1 1	2	05	1	2	3	1	4.87
821215	12 593	1	18 18 01	33 087 N 118 180 W	10 13	1 2	1 1	2	11	1	2	3	1	13.79
821215	13 109	1	18 19 01	33 119 N 118 237 W	10 13	1 1	1 1	2	12	1	2	3	1	7.95
821215	13 180	1	18 20 01	33 174 N 118 197 W	10 13	1 1	1 1	2	06	1	2	3	1	6.38
821215	13 236	1	18 21 01	33 135 N 118 272 W	10 13	1 1	1 1	2	12	1	2	3	1	7.07
821215	13 288	1	18 22 01	33 186 N 118 235 W	10 13	1 1	1 1	2	12	1	2	3	1	6.06
821215	13 352	1	18 23 01	33 137 N 118 319 W	10 13	1 1	1 1	2	12	1	2	3	1	7.26
821215	13 410	1	18 24 01	33 191 N 118 280 W	10 13	1 1	1 1	2	06	1	2	3	1	6.73
821215	13 470	1	18 25 01	33 153 N 118 350 W	10 13	1 1	1 1	2	12	1	2	3	1	7.09
821215	13 535	1	18 26 01	33 222 N 118 289 W	10 13	1 1	1 1	2	06	1	2	3	1	6.84
821215	13 598	1	18 27 01	33 192 N 118 356 W	10 13	1 2	1 1	2	12	1	2	3	1	7.06
821215	14 052	1	18 28 01	33 246 N 118 310 W	10 13	1 1	1 1	2	06	1	2	3	1	6.37
821215	14 118	1	18 29 01	33 201 N 118 391 W	10 13	1 2	1 1	2	12	1	2	3	1	7.48
821215	14 173	1	18 30 01	33 257 N 118 348 W	10 13	1 1	2 2	2	06	1	2	3	1	6.45
821215	14 238	1	18 31 01	33 220 N 118 424 W	10 13	1 2	1 2	2	12	1	2	3	1	7.65
821215	14 344	1	18 32 01	33 336 N 118 308 W	10 13	1 1	1 2	2	06	1	2	3	1	13.58
821216	10 308	1	19 01 01	33 341 N 118 400 W	10 13	1 1	3 3	2	03	2	2	1	1	8.21
821216	10 343	1	19 01 02	33 377 N 118 361 W	10 13	1 1	2 3	2	03	1	2	1	1	4.84
821216	10 448	1	19 02 01	33 267 N 118 443 W	10 13	2 3	1 1	2	10	1	2	1	1	12.97
821216	10 458	1	19 02 02	33 259 N 118 453 W	10 13	2 3	1 1	2	10	2	2	1	1	1.15
821216	10 578	1	19 03 01	33 335 N 118 306 W	10 13	1 1	3 3	2	04	2	2	1	1	14.23
821216	11 006	1	19 04 01	33 312 N 118 311 W	10 13	2 2	1 1	2	10	2	2	1	1	2.34
821216	11 037	1	19 04 02	33 285 N 118 346 W	10 13	2 2	1 1	2	10	1	2	1	1	3.97
821216	11 090	1	19 05 01	33 321 N 118 279 W	10 13	1 1	2 2	2	04	1	2	1	1	5.02
821216	11 103	1	19 05 02	33 335 N 118 262 W	10 13	1 1	2 2	2	04	2	2	1	1	1.99
821216	11 145	1	19 06 01	33 297 N 118 283 W	10 13	2 2	1 1	2	10	2	2	1	1	3.60
821216	11 167	1	19 06 02	33 275 N 118 308 W	10 13	2 2	1 1	2	10	1	2	1	1	3.03
821216	11 217	1	19 07 01	33 302 N 118 250 W	10 13	1 1	2 2	2	10	1	2	1	1	4.70
821216	11 231	1	19 07 02	33 318 N 118 233 W	10 13	1 1	2 2	2	10	2	2	1	1	2.13
821216	11 291	1	19 08 01	33 261 N 118 273 W	10 13	2 2	2 2	2	10	2	2	1	1	6.65
821216	11 358	1	19 09 01	33 305 N 118 195 W	10 13	1 1	2 2	2	04	1	2	1	1	6.94
821216	11 415	1	19 10 01	33 251 N 118 233 W	10 13	2 2	1 1	2	11	2	2	1	1	6.65
821216	11 478	1	19 11 01	33 294 N 118 159 W	10 13	1 1	2 2	2	05	2	2	1	1	7.38
821216	11 545	1	19 12 01	33 230 N 118 212 W	10 13	2 2	1 1	2	10	2	2	1	1	6.47
821216	12 007	1	19 13 01	33 269 N 118 140 W	10 13	1 1	2 2	2	05	2	2	1	1	7.38
821216	12 076	1	19 14 01	33 204 N 118 186 W	10 13	2 2	1 1	2	10	3	2	1	1	6.86
821216	12 137	1	19 15 01	33 243 N 118 122 W	10 13	1 1	2 2	2	05	2	2	1	1	6.95
821216	12 213	1	19 16 01	33 170 N 118 185 W	10 13	2 2	1 1	2	10	3	2	1	1	8.21
821216	12 250	1	19 16 02	33 126 N 118 231 W	10 13	1 1	1 1	2	10	1	2	1	1	5.84
821216	12 301	1	19 17 01	33 130 N 118 177 W	10 13	1 1	2 2	2	05	3	2	1	1	3.31
821216	12 372	1	19 17 02	33 208 N 118 083 W	10 13	1 1	2 2	2	05	2	2	1	1	11.07
821216	12 483	1	19 18 01	33 086 N 118 177 W	10 13	1 2	1 1	2	11	2	2	1	1	13.73
821216	12 489	1	19 18 02	33 082 N 118 182 W	10 13	1 2	1 1	2	11	3	2	1	1	.57
821216	12 588	1	19 19 01	33 159 N 118 194 W	10 13	1 1	1 1	2	11	2	2	1	1	2.42

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver.	Sun Position Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
821216	13 022	1	19 19 02	33 125 N 118 231 W	10 13	1 1	1 1	2	11	1	2	1	1	4.59
821216	13 074	1	19 20 01	33 157 N 118 216 W	10 13	1 1	2 2	2	05	3	2	1	1	4.17
821216	13 089	1	19 20 02	33 175 N 118 198 W	10 13	1 1	2 2	2	05	2	2	1	1	2.34
821216	13 148	1	19 21 01	33 134 N 118 273 W	10 13	2 1	1 1	2	11	2	2	1	1	7.14
821216	13 199	1	19 22 01	33 179 N 118 242 W	10 13	1 1	2 2	2	05	3	2	1	1	5.40
821216	13 209	1	19 22 02	33 187 N 118 236 W	10 13	1 1	2 2	2	05	2	2	1	1	.94
821216	13 230	1	19 23 01	33 175 N 118 272 W	10 13	2 2	1 1	2	11	2	2	1	1	1.79
821216	13 269	1	19 23 02	33 135 N 118 321 W	10 13	2 2	1 1	2	11	3	2	1	1	5.72
821216	13 332	1	19 24 01	33 189 N 118 280 W	10 13	1 1	2 2	2	05	3	2	1	1	7.25
821216	13 352	1	19 25 01	33 189 N 118 303 W	10 13	2 2	1 1	2	11	3	2	1	1	1.74
821216	13 418	1	19 25 01	33 153 N 118 350 W	10 13	2 2	1 1	2	11	3	2	1	1	5.14
821216	13 490	1	19 26 01	33 222 N 118 288 W	10 13	1 1	2 2	2	05	3	2	1	1	7.03
821216	13 528	1	19 27 01	33 214 N 118 330 W	10 13	2 2	1 1	2	11	2	2	1	1	4.10
821216	13 547	1	19 27 02	33 193 N 118 355 W	10 13	2 2	1 1	2	11	3	2	1	1	2.96
821216	13 598	1	19 28 01	33 234 N 118 321 W	10 13	1 1	2 2	2	06	3	2	1	1	5.26
821216	14 008	1	19 28 02	33 248 N 118 310 W	10 13	1 1	2 2	2	06	2	2	1	1	1.67
821216	14 071	1	19 29 01	33 200 N 118 391 W	10 13	2 2	1 1	2	12	2	2	1	1	7.55
821216	14 131	1	19 30 01	33 259 N 118 347 W	10 13	1 1	2 2	2	06	2	2	1	1	6.75
821216	14 190	1	19 31 01	33 222 N 118 420 W	10 13	1 2	1 1	2	12	2	2	1	1	7.20
821216	14 302	1	19 32 01	33 334 N 118 305 W	10 13	1 1	2 2	2	06	2	2	1	1	13.75
821217	09 524	1	20 01 01	33 378 N 118 362 W	10 13	1 1	3 3	3	03	2	2	1	2	13.47
821217	10 047	1	20 02 01	33 258 N 118 452 W	10 13	3 3	1 1	3	09	2	2	1	2	13.75
821217	10 160	1	20 03 01	33 338 N 118 306 W	10 13	1 1	3 3	3	03	2	2	1	2	14.06
821217	10 222	1	20 04 01	33 285 N 118 346 W	10 13	3 3	1 1	2	10	3	2	1	2	6.11
821217	10 280	1	20 05 01	33 335 N 118 265 W	10 13	1 1	3 3	2	04	2	2	1	2	6.84
821217	10 345	1	20 06 01	33 273 N 118 307 W	10 13	3 3	1 1	2	10	3	2	1	2	6.58
821217	10 403	1	20 07 01	33 318 N 118 231 W	10 13	1 1	3 3	2	04	3	2	1	2	6.95
821217	10 460	1	20 08 01	33 260 N 118 274 W	10 13	2 3	1 1	2	10	3	2	1	2	6.67
821217	10 486	1	20 09 01	33 272 N 118 240 W	10 13	1 1	2 2	2	04	3	2	1	2	1.98
821217	10 521	1	20 09 02	33 307 N 118 194 W	10 13	1 1	3 3	2	04	3	2	1	2	5.19
821217	10 582	1	20 10 01	33 250 N 118 233 W	10 13	2 3	1 1	3	10	2	2	1	2	6.65
821217	11 042	1	20 11 01	33 295 N 118 161 W	10 13	1 1	3 3	2	04	3	2	1	2	7.12
821217	11 102	1	20 12 01	33 230 N 118 211 W	10 13	2 3	1 1	2	10	3	2	1	2	6.48
821217	11 163	1	20 13 01	33 270 N 118 141 W	10 13	1 1	3 3	2	04	3	2	1	2	7.30
821217	11 218	1	20 14 01	33 210 N 118 180 W	10 13	2 3	1 1	2	10	3	2	1	2	6.10
821217	11 225	1	20 14 02	33 205 N 118 186 W	10 13	2 3	1 1	2	10	2	2	1	2	.70
821217	11 283	1	20 15 01	33 247 N 118 120 W	10 13	1 1	2 2	2	04	2	2	1	2	7.48
821217	11 320	1	20 16 01	33 216 N 118 129 W	10 13	2 3	1 1	2	10	3	2	1	2	1.60
821217	11 375	1	20 16 01	33 188 N 118 163 W	10 13	2 3	1 1	2	10	3	2	1	2	3.98
821217	11 418	1	20 16 02	33 140 N 118 216 W	10 13	1 2	1 1	2	10	2	2	1	2	6.53
821217	11 435	1	20 16 03	33 123 N 118 233 W	10 13	2 3	1 1	2	10	3	2	1	2	2.21
821217	11 494	1	20 17 01	33 146 N 118 162 W	10 13	1 1	2 2	2	05	3	2	1	2	5.44
821217	11 557	1	20 17 02	33 209 N 118 085 W	10 13	1 1	2 2	2	05	2	2	1	2	9.00
821217	12 015	1	20 18 01	33 151 N 118 100 W	10 13	2 3	1 1	2	11	3	2	1	2	4.74
821217	12 078	1	20 18 02	33 088 N 118 181 W	10 13	1 2	1 1	2	11	2	2	1	2	9.25
821217	12 156	1	20 19 01	33 150 N 118 204 W	10 13	1 1	1 1	2	10	2	2	1	2	3.80

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
821217	12 173	1	20 19 02	33 141 N 118 213 W	10 13	1 1	1 1	2 10	3	2	1	2	1.17
821217	12 186	1	20 19 03	33 127 N 118 229 W	10 13	1 2	1 1	2 10	3	2	1	2	1.93
821217	12 248	1	20 20 01	33 174 N 118 198 W	10 13	1 1	2 2	2 05	3	2	1	2	6.37
821217	12 303	1	20 21 01	33 134 N 118 272 W	10 13	2 3	1 1	2 10	3	2	1	2	7.01
821217	12 358	1	20 22 01	33 185 N 118 236 W	10 13	1 1	2 2	2 05	3	2	1	2	6.35
821217	12 376	1	20 23 01	33 183 N 118 262 W	10 13	2 3	1 1	2 11	3	2	1	2	.76
821217	12 453	1	20 23 01	33 138 N 118 318 W	10 13	2 3	1 1	2 11	3	2	1	2	6.67
821217	12 510	1	20 24 01	33 189 N 118 282 W	10 13	1 1	2 2	2 05	3	2	1	2	6.84
821217	12 548	1	20 25 01	33 172 N 118 326 W	10 13	2 2	1 1	2 11	2	2	1	2	4.20
821217	12 588	1	20 25 01	33 151 N 118 351 W	10 13	2 2	1 1	2 11	2	2	1	2	2.44
821217	13 051	1	20 26 01	33 211 N 118 298 W	10 13	1 1	2 2	2 05	3	2	1	2	5.60
821217	13 058	1	20 26 02	33 221 N 118 290 W	10 13	1 1	2 2	2 05	2	2	1	2	1.20
821217	13 115	1	20 27 01	33 192 N 118 355 W	10 13	2 3	1 1	2 11	3	2	1	2	6.93
821217	13 181	1	20 28 01	33 245 N 118 311 W	10 13	1 1	2 2	2 05	3	2	1	2	6.73
821217	13 242	1	20 29 01	33 200 N 118 391 W	10 13	2 2	1 1	2 11	3	2	1	2	7.29
821217	13 305	1	20 30 01	33 259 N 118 347 W	10 13	1 1	2 2	2 05	3	2	1	2	6.68
821217	13 368	1	20 31 01	33 219 N 118 419 W	10 13	2 2	1 1	2 12	3	2	1	2	7.29
821217	13 490	1	20 32 01	33 337 N 118 306 W	10 13	1 1	2 2	2 06	3	2	1	2	13.90
830203	10 350	1	21 01 01	33 371 N 118 370 W	10 13	1 2	2 2	2 03	3	2	4	1	12.22
830203	10 518	1	21 02 01	33 260 N 118 452 W	10 13	1 2	1 2	2 10	3	2	4	1	13.97
830203	11 040	1	21 03 01	33 344 N 118 305 W	10 13	1 2	1 2	2 03	2	2	4	1	14.43
830203	11 112	1	21 04 01	33 285 N 118 348 W	10 13	2 3	2 2	2 10	2	2	4	1	6.74
830203	11 177	1	21 05 01	33 336 N 118 263 W	10 13	1 1	1 2	2 03	2	2	4	1	7.02
830203	11 220	1	21 06 01	33 288 N 118 294 W	10 13	1 2	1 2	2 10	3	2	4	1	4.83
830203	11 234	1	21 06 02	33 275 N 118 308 W	10 13	1 2	1 2	2 10	2	2	4	1	1.74
830203	11 300	1	21 07 01	33 318 N 118 232 W	10 13	1 1	1 2	2 10	2	2	4	1	6.89
830203	11 356	1	21 08 01	33 261 N 118 273 W	10 13	1 2	1 2	2 10	2	2	3	1	6.59
830203	11 418	1	21 09 01	33 307 N 118 193 W	10 13	1 2	2 3	2 04	2	2	3	1	7.20
830203	11 476	1	21 10 01	33 250 N 118 236 W	10 13	2 2	1 2	2 11	3	2	3	1	6.82
830203	11 530	1	21 11 01	33 294 N 118 159 W	10 13	1 2	2 3	2 04	2	2	3	1	7.23
830203	11 592	1	21 12 01	33 226 N 118 211 W	10 13	2 2	1 1	2 11	2	2	3	1	6.80
830203	12 047	1	21 13 01	33 270 N 118 140 W	10 13	1 2	2 2	2 04	2	2	3	1	7.47
830203	12 098	1	21 14 01	33 204 N 118 188 W	10 13	2 2	1 2	2 11	2	2	3	1	7.30
830203	12 162	1	21 15 01	33 242 N 118 119 W	10 13	1 2	2 2	2 04	2	2	3	1	7.58
830203	12 270	1	21 16 01	33 122 N 118 232 W	10 13	2 2	1 2	2 11	2	2	3	1	14.73
830203	12 390	1	21 17 01	33 211 N 118 080 W	10 13	1 2	2 2	2 04	2	2	3	1	14.69
830203	12 506	1	21 18 01	33 083 N 118 178 W	10 13	2 2	1 2	5 13	2	2	4	1	13.94
830203	13 013	1	21 19 01	33 121 N 118 234 W	10 13	2 2	1 2	2 12	2	2	3	1	7.35
830203	13 068	1	21 20 01	33 174 N 118 199 W	10 13	1 2	2 2	2 06	2	2	3	1	6.50
830203	13 098	1	21 21 01	33 161 N 118 240 W	10 13	2 2	1 2	2 07	2	2	3	1	3.21
830203	13 151	1	21 21 01	33 132 N 118 273 W	10 13	2 2	1 2	2 07	2	2	3	1	2.92
830203	13 208	1	21 22 01	33 186 N 118 236 W	10 13	1 2	2 2	2 06	2	2	3	1	5.77
830203	13 232	1	21 23 01	33 177 N 118 267 W	10 13	1 2	1 2	2 12	2	2	3	1	1.22
830203	13 309	1	21 23 01	33 136 N 118 320 W	10 13	1 2	1 2	2 12	2	2	3	1	6.09
830203	13 375	1	21 24 01	33 189 N 118 276 W	10 13	1 2	1 2	2 06	2	2	3	1	7.45
830203	13 483	1	21 25 01	33 151 N 118 351 W	10 13	1 2	1 1	2 12	2	2	3	1	7.28

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
830203	13 568	1	21 26 01	33 225 N	118 288 W	10	13	1	2	2	2	2	06	2	2	3	1	7.35
830203	14 011	1	21 27 01	33 208 N	118 339 W	10	13	1	2	1	2	2	12	2	2	3	1	4.67
830203	14 030	1	21 27 02	33 187 N	118 362 W	10	13	1	2	1	2	2	12	3	2	3	1	2.84
830203	14 091	1	21 28 01	33 251 N	118 309 W	10	13	1	2	1	2	2	06	2	2	3	1	7.36
830203	14 151	1	21 29 01	33 202 N	118 393 W	10	13	1	2	1	2	2	12	2	2	3	1	7.58
830203	14 208	1	21 30 01	33 259 N	118 347 W	10	13	1	2	1	2	2	06	2	2	3	1	6.94
830203	14 265	1	21 31 01	33 222 N	118 420 W	10	13	1	2	1	2	2	12	2	2	3	1	7.03
830203	14 326	1	21 32 01	33 289 N	118 365 W	10	13	1	2	1	2	2	06	2	2	3	1	7.01
830204	10 340	1	22 01 01	33 382 N	118 356 W	10	13	2	3	3	3	2	03	3	2	3	1	13.99
830204	10 447	1	22 02 01	33 258 N	118 464 W	10	13	3	3	2	3	2	10	3	2	3	1	15.02
830204	10 570	1	22 03 01	33 341 N	118 306 W	10	13	2	2	3	3	2	03	3	2	3	1	13.80
830204	11 024	1	22 04 01	33 286 N	118 347 W	10	13	3	3	2	2	2	10	3	2	3	1	6.84
830204	11 087	1	22 05 01	33 340 N	118 260 W	10	13	2	2	3	3	2	04	3	2	3	1	7.49
830204	11 144	1	22 06 01	33 278 N	118 310 W	10	13	3	3	2	2	2	10	3	2	3	1	6.75
830204	11 207	1	22 07 01	33 322 N	118 231 W	10	13	2	2	3	3	2	04	3	2	3	1	7.24
830204	11 261	1	22 08 01	33 264 N	118 275 W	10	13	3	3	2	2	2	10	3	2	3	1	6.78
830204	11 321	1	22 09 01	33 312 N	118 194 W	10	13	2	2	3	3	2	04	3	2	3	1	7.51
830204	11 377	1	22 10 01	33 253 N	118 234 W	10	13	3	3	2	2	2	11	3	2	3	1	6.45
830204	11 438	1	22 11 01	33 299 N	118 161 W	10	13	2	2	3	3	2	04	3	2	3	1	7.47
830204	11 503	1	22 12 01	33 234 N	118 214 W	10	13	3	3	2	2	2	11	3	2	3	1	6.74
830204	11 568	1	22 13 01	33 271 N	118 140 W	10	13	2	2	3	3	2	05	3	2	3	1	7.38
830204	12 037	1	22 14 01	33 206 N	118 188 W	10	13	3	3	2	2	2	11	3	2	3	1	6.96
830204	12 095	1	22 15 01	33 246 N	118 122 W	10	13	2	2	3	3	2	05	3	2	3	1	7.11
830204	12 208	1	22 16 01	33 129 N	118 234 W	10	13	3	3	2	2	2	11	3	2	3	1	14.09
830204	12 334	1	22 17 01	33 211 N	118 086 W	10	13	2	2	3	3	2	05	3	2	3	1	14.03
830204	12 463	1	22 18 01	33 087 N	118 183 W	10	13	3	3	2	2	2	11	3	2	3	1	14.05
830204	12 575	1	22 19 01	33 127 N	118 233 W	10	13	3	3	2	2	2	12	3	2	3	1	7.77
830204	13 039	1	22 20 01	33 177 N	118 199 W	10	13	2	2	3	3	5	13	3	2	4	1	6.42
830204	13 090	1	22 21 01	33 135 N	118 271 W	10	13	3	3	2	2	5	13	3	2	4	1	7.09
830204	13 148	1	22 22 01	33 189 N	118 235 W	10	13	2	3	3	3	5	13	3	2	4	1	6.94
830204	13 205	1	22 23 01	33 141 N	118 317 W	10	13	3	3	2	2	2	12	3	2	3	1	7.20
830204	13 267	1	22 24 01	33 191 N	118 280 W	10	13	2	2	3	3	2	06	3	2	3	1	6.93
830204	13 320	1	22 25 01	33 153 N	118 350 W	10	13	2	3	2	2	2	12	3	2	3	1	7.20
830204	13 395	1	22 26 01	33 229 N	118 285 W	10	13	2	3	3	3	2	06	3	2	3	1	7.19
830204	13 459	1	22 27 01	33 188 N	118 366 W	10	13	2	3	2	3	5	13	3	2	4	1	7.95
830204	13 516	1	22 28 01	33 249 N	118 309 W	10	13	2	3	3	3	5	13	3	2	4	1	6.61
830204	13 548	1	22 29 01	33 236 N	118 358 W	10	13	2	3	2	3	5	13	2	2	5	1	3.27
830204	13 576	1	22 29 02	33 207 N	118 392 W	10	13	2	3	2	3	5	13	3	2	5	1	4.05
830204	14 035	1	22 30 01	33 262 N	118 347 W	10	13	2	3	2	3	5	13	3	2	4	1	6.54
830204	14 091	1	22 31 01	33 228 N	118 418 W	10	13	2	3	2	3	5	13	2	2	4	1	6.86
830204	14 168	1	22 32 01	33 303 N	118 350 W	10	13	2	3	3	3	5	13	3	2	4	1	8.60
830204	14 205	1	22 32 02	33 340 N	118 306 W	10	13	1	2	3	3	5	13	3	2	4	1	5.20
830205	10 309	1	23 01 01	33 384 N	118 352 W	10	13	1	2	3	3	2	03	2	2	4	1	13.74
830205	10 380	1	23 02 01	33 312 N	118 393 W	10	13	1	2	1	2	2	10	2	2	4	1	7.01
830205	10 440	1	23 02 02	33 261 N	118 453 W	10	13	2	3	1	2	2	10	2	2	4	1	7.14
830205	10 576	1	23 03 01	33 342 N	118 307 W	10	13	1	2	1	2	5	13	2	2	4	1	13.88

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
830205	11 033	1	23 04 01	33 285 N	118 348 W	10	13	2	3	1	2	2	10	2	2	4	1	6.71
830205	11 128	1	23 05 01	33 339 N	118 263 W	10	13	2	3	2	3	5	13	2	2	4	1	7.26
830205	11 191	1	23 06 01	33 276 N	118 308 W	10	13	1	2	2	3	2	10	2	2	4	1	6.97
830205	11 236	1	23 07 01	33 309 N	118 247 W	10	13	1	2	1	2	5	13	2	2	4	1	5.39
830205	11 248	1	23 07 02	33 322 N	118 232 W	10	13	1	2	2	2	5	13	2	2	4	1	1.80
830205	11 307	1	23 08 01	33 263 N	118 276 W	10	13	2	2	2	2	5	13	1	2	4	1	7.01
830205	11 328	1	23 09 01	33 263 N	118 248 W	10	13	1	2	2	2	5	13	2	2	4	1	.86
830205	11 423	1	23 09 01	33 310 N	118 195 W	10	13	1	2	2	2	5	13	2	2	4	1	6.63
830205	11 493	1	23 10 01	33 254 N	118 234 W	10	13	2	3	2	2	5	13	1	2	4	1	6.58
830205	11 552	1	23 11 01	33 297 N	118 160 W	10	13	1	2	2	3	5	13	1	2	4	1	7.30
830205	12 020	1	23 12 01	33 233 N	118 213 W	10	13	2	3	2	2	5	13	2	2	4	1	6.54
830205	12 094	1	23 13 01	33 271 N	118 140 W	10	13	2	3	2	3	5	13	3	2	4	1	7.25
830205	12 155	1	23 14 01	33 208 N	118 187 W	10	13	3	3	2	3	5	13	2	2	4	1	6.88
830205	12 220	1	23 15 01	33 247 N	118 118 W	10	13	2	3	2	3	5	13	2	2	4	1	7.58
830205	12 313	1	23 16 01	33 155 N	118 205 W	10	13	2	3	3	3	5	13	2	2	5	1	10.86
830205	12 363	1	23 16 01	33 126 N	118 231 W	10	13	2	3	3	3	5	13	2	2	5	1	3.79
830205	12 402	1	23 17 01	33 119 N	118 188 W	10	13	2	3	2	3	5	13	2	2	4	1	1.56
830205	12 504	1	23 17 01	33 208 N	118 085 W	10	13	2	3	2	3	5	13	2	2	4	1	12.09
830205	12 567	1	23 18 01	33 151 N	118 106 W	10	13	2	3	3	3	5	13	2	2	4	1	5.02
830205	13 023	1	23 18 02	33 088 N	118 180 W	10	13	2	3	2	3	5	13	2	2	4	1	8.83
830205	13 138	1	23 19 01	33 127 N	118 231 W	10	13	3	3	3	3	5	13	2	2	5	1	6.83
830205	13 195	1	23 20 01	33 167 N	118 199 W	10	13	3	3	3	3	5	13	2	2	5	1	5.64
830205	13 252	1	23 21 01	33 127 N	118 274 W	10	13	3	3	2	3	5	13	2	2	5	1	7.19
830205	13 308	1	23 22 01	33 180 N	118 239 W	10	13	3	3	3	3	5	13	2	2	5	1	6.34
830205	13 393	1	23 23 01	33 139 N	118 317 W	10	13	3	3	3	3	5	13	2	2	5	1	6.09
830205	13 451	1	23 24 01	33 191 N	118 279 W	10	13	3	3	3	3	5	13	2	2	5	1	6.87
830205	13 499	1	23 25 01	33 164 N	118 335 W	10	13	3	3	3	3	5	13	2	2	5	1	5.63
830205	13 528	1	23 25 01	33 151 N	118 354 W	10	13	3	3	3	3	5	13	2	2	5	1	1.95
830205	14 061	1	23 28 01	33 249 N	118 309 W	10	13	2	3	2	3	5	13	2	2	5	1	6.96
830205	14 118	1	23 29 01	33 204 N	118 390 W	10	13	2	3	2	3	5	13	2	2	5	1	7.39
830205	14 176	1	23 30 01	33 264 N	118 347 W	10	13	2	3	2	3	5	13	2	2	5	1	7.16
830205	14 232	1	23 31 01	33 227 N	118 415 W	10	13	2	3	2	3	5	13	2	2	4	1	6.73
830205	14 342	1	23 32 01	33 340 N	118 310 W	10	13	2	3	2	3	5	13	2	2	4	1	13.62
830206	10 228	1	24 01 01	33 377 N	118 361 W	10	13	2	3	3	3	5	13	2	2	4	1	12.96
830206	10 234	1	24 01 02	33 386 N	118 351 W	10	13	3	3	3	3	5	13	2	2	4	1	1.22
830206	10 363	1	24 02 01	33 263 N	118 449 W	10	13	3	3	3	3	5	13	2	2	4	1	13.81
830206	10 409	1	24 03 01	33 269 N	118 394 W	10	13	3	3	2	3	5	13	2	2	5	1	3.60
830206	10 476	1	24 03 02	33 341 N	118 305 W	10	13	3	3	3	3	5	13	2	2	4	1	10.33
830206	10 514	1	24 04 01	33 312 N	118 321 W	10	13	2	3	3	3	5	13	2	2	4	1	3.30
830206	10 538	1	24 04 02	33 286 N	118 348 W	10	13	2	3	2	3	5	13	2	2	4	1	3.43
830206	11 030	1	24 05 01	33 307 N	118 297 W	10	13	3	3	3	3	5	13	2	2	4	1	2.97
830206	11 104	1	24 05 01	33 338 N	118 263 W	10	13	3	3	3	3	5	13	2	2	4	1	4.04
830206	11 172	1	24 06 01	33 275 N	118 308 W	10	13	2	3	3	3	5	13	2	2	4	1	6.93
830206	11 189	1	24 07 01	33 271 N	118 285 W	10	13	2	3	3	3	5	13	2	2	4	1	.44
830206	11 253	1	24 07 01	33 326 N	118 227 W	10	13	2	3	3	3	5	13	2	2	4	1	7.04
830206	11 291	1	24 08 01	33 293 N	118 246 W	10	13	3	3	3	3	5	13	2	2	4	1	3.01

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver.	Sun Position Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
830206	11 315	1	24 08 02	33 265 N 118 276 W	10 13	3 3	2 3	5	13	2	2	4	1	3.75
830206	11 344	1	24 09 01	33 274 N 118 239 W	10 13	3 3	2 3	5	13	2	2	5	1	2.19
830206	11 378	1	24 09 02	33 311 N 118 194 W	10 13	3 3	3 3	5	13	2	2	5	1	5.27
830206	11 418	1	24 10 01	33 280 N 118 209 W	10 13	3 3	3 3	5	13	2	2	4	1	3.39
830206	11 441	1	24 10 02	33 254 N 118 235 W	10 13	2 3	2 3	5	13	2	2	4	1	3.38
830206	11 478	1	24 11 01	33 273 N 118 188 W	10 13	3 3	2 3	5	13	2	2	4	1	3.86
830206	11 501	1	24 11 02	33 296 N 118 158 W	10 13	3 3	3 3	5	13	2	2	4	1	3.39
830206	11 594	1	24 12 01	33 233 N 118 212 W	10 13	3 3	3 3	5	13	2	2	4	1	6.29
830206	12 035	1	24 13 01	33 246 N 118 167 W	10 13	3 3	3 3	5	13	2	2	4	1	3.96
830206	12 093	1	24 13 01	33 260 N 118 155 W	10 13	3 3	3 3	5	13	2	2	4	1	1.61
830206	12 103	1	24 13 02	33 272 N 118 141 W	10 13	2 3	3 3	5	13	2	2	4	1	1.67
830206	12 145	1	24 14 01	33 236 N 118 157 W	10 13	3 3	2 3	5	13	2	2	4	1	3.16
830206	12 147	1	24 14 02	33 235 N 118 159 W	10 13	3 3	3 3	5	13	2	2	4	1	.19
830206	12 223	1	24 14 02	33 207 N 118 188 W	10 13	3 3	3 3	5	13	2	2	4	1	3.74
830206	12 248	1	24 15 01	33 201 N 118 168 W	10 13	2 3	3 3	5	13	2	2	4	1	1.59
830206	12 308	1	24 15 01	33 245 N 118 120 W	10 13	2 3	3 3	5	13	2	2	4	1	6.10
830206	12 410	1	24 16 01	33 140 N 118 215 W	10 13	3 3	3 3	5	13	2	2	4	1	12.26
830206	12 423	1	24 16 02	33 126 N 118 229 W	10 13	3 3	3 3	5	13	3	2	4	1	1.82
830206	12 488	1	24 17 01	33 157 N 118 145 W	10 13	2 3	3 3	5	13	2	2	4	1	6.62
830206	12 533	1	24 17 02	33 209 N 118 086 W	10 13	3 3	3 3	5	13	2	2	4	1	7.16
830206	12 591	1	24 18 01	33 152 N 118 102 W	10 13	2 3	3 3	5	13	2	2	4	1	4.61
830206	13 056	1	24 18 02	33 085 N 118 181 W	10 13	3 3	3 3	5	13	2	2	4	1	9.41
830206	13 183	1	24 19 01	33 126 N 118 229 W	10 13	3 3	3 3	5	13	2	2	4	1	7.37
830206	13 243	1	24 20 01	33 176 N 118 198 W	10 13	2 3	3 3	5	13	3	2	4	1	6.27
830206	13 302	1	24 21 01	33 136 N 118 270 W	10 13	3 3	3 3	2	12	2	2	4	1	6.89
830206	13 360	1	24 22 01	33 189 N 118 234 W	10 13	2 3	3 3	5	13	2	2	4	1	6.25
830206	13 399	1	24 23 01	33 162 N 118 288 W	10 13	3 3	2 3	5	13	2	2	4	1	3.93
830206	13 445	1	24 23 01	33 140 N 118 317 W	10 13	3 3	2 3	5	13	2	2	4	1	3.34
830206	13 509	1	24 24 01	33 190 N 118 270 W	10 13	2 3	3 3	5	13	3	2	4	1	7.63
830206	13 572	1	24 25 01	33 154 N 118 347 W	10 13	3 3	3 3	5	13	2	2	4	1	6.99
830206	14 027	1	24 26 01	33 215 N 118 299 W	10 13	3 3	3 3	5	13	2	2	4	1	5.47
830206	14 038	1	24 26 02	33 228 N 118 286 W	10 13	1 2	3 3	5	13	2	2	4	1	1.69
830206	14 064	1	24 27 01	33 229 N 118 313 W	10 13	2 3	2 3	2	12	2	2	4	1	2.11
830206	14 106	1	24 27 01	33 232 N 118 315 W	10 13	2 3	2 3	2	12	2	2	4	1	.13
830206	14 138	1	24 27 02	33 195 N 118 353 W	10 13	3 3	3 3	5	13	2	2	4	1	4.87
830206	14 198	1	24 28 01	33 249 N 118 309 W	10 13	2 3	3 3	2	06	2	2	4	1	7.06
830206	14 259	1	24 29 01	33 204 N 118 389 W	10 13	3 3	3 3	2	12	2	2	4	1	7.44
830206	14 318	1	24 30 01	33 262 N 118 347 W	10 13	2 3	3 3	2	06	2	2	4	1	6.75
830206	14 350	1	24 31 01	33 256 N 118 383 W	10 13	2 3	2 3	2	12	2	2	4	1	2.82
830206	14 379	1	24 31 02	33 227 N 118 417 W	10 13	3 3	2 3	2	12	2	2	4	1	4.05
830206	14 434	1	24 32 01	33 275 N 118 382 W	10 13	2 3	3 3	2	06	2	2	4	1	4.69
830206	14 493	1	24 32 02	33 341 N 118 307 W	10 13	2 3	2 3	2	06	2	2	4	1	9.09
831212	10 480	1	25 01 01	33 390 N 118 359 W	10 13	1 2	3 3	1	03	2	2	1	1	13.67
831212	11 013	1	25 02 01	33 265 N 118 445 W	10 13	2 3	1 2	1	10	2	2	1	1	13.86
831212	11 126	1	25 03 01	33 347 N 118 307 W	10 13	1 2	3 3	1	04	2	2	1	1	13.78
831212	11 192	1	25 04 01	33 287 N 118 346 W	10 13	2 3	1 2	1	10	2	2	1	1	7.04

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
831212	11 229	1	25 05 01	33 308 N 118 293 W	10 13	1 2	3 3	1 04	2	2	1	1	3.16
831212	11 256	1	25 05 02	33 340 N 118 260 W	10 13	1 2	2 3	1 04	2	2	1	1	4.21
831212	11 319	1	25 06 01	33 275 N 118 303 W	10 13	2 3	1 2	1 10	2	2	1	1	6.82
831212	11 378	1	25 07 01	33 323 N 118 228 W	10 13	1 2	2 3	1 04	2	2	1	1	7.41
831212	11 442	1	25 08 01	33 264 N 118 272 W	10 13	3 3	1 2	1 11	3	2	1	1	6.94
831212	11 486	1	25 09 01	33 293 N 118 210 W	10 13	1 2	2 3	1 05	2	2	1	1	5.09
831212	11 502	1	25 09 02	33 309 N 118 191 W	10 13	1 2	2 3	1 05	3	2	1	1	2.25
831212	11 545	1	25 10 01	33 271 N 118 210 W	10 13	3 3	1 2	1 11	2	2	1	1	4.18
831212	11 561	1	25 10 02	33 254 N 118 230 W	10 13	3 3	1 2	1 11	3	2	1	1	2.38
831212	12 019	1	25 11 01	33 297 N 118 157 W	10 13	1 2	2 3	1 05	3	2	1	1	7.33
831212	12 086	1	25 12 01	33 232 N 118 209 W	10 13	3 3	1 2	1 11	3	2	1	1	6.41
831212	12 146	1	25 13 01	33 271 N 118 137 W	10 13	1 2	3 3	1 05	3	2	1	1	7.42
831212	12 215	1	25 14 01	33 208 N 118 186 W	10 13	3 3	1 2	1 11	3	2	1	1	6.67
831212	12 279	1	25 15 01	33 241 N 118 119 W	10 13	1 2	2 3	1 05	3	2	1	1	7.44
831212	12 395	1	25 16 01	33 128 N 118 234 W	10 13	3 3	1 2	1 11	3	2	1	1	14.27
831212	12 514	1	25 17 01	33 208 N 118 088 W	10 13	2 2	2 3	1 05	3	2	1	1	14.06
831212	13 034	1	25 18 01	33 085 N 118 184 W	10 13	3 3	1 2	1 11	3	2	1	1	13.98
831212	13 177	1	25 19 01	33 127 N 118 238 W	10 13	3 3	2 2	1 11	3	2	1	1	7.45
831212	13 239	1	25 20 01	33 177 N 118 198 W	10 13	1 2	2 3	1 05	3	2	1	1	6.43
831212	13 296	1	25 21 01	33 137 N 118 271 W	10 13	3 3	2 2	1 11	3	2	1	1	7.02
831212	13 359	1	25 22 01	33 190 N 118 234 W	10 13	2 2	2 3	1 05	3	2	1	1	6.30
831212	13 422	1	25 23 01	33 143 N 118 317 W	10 13	3 3	2 2	1 11	3	2	1	1	7.06
831212	13 490	1	25 24 01	33 194 N 118 278 W	10 13	1 2	2 3	2 05	3	2	1	1	6.49
831212	13 520	1	25 25 01	33 191 N 118 311 W	10 13	3 3	2 2	2 11	3	2	1	1	2.43
831212	13 576	1	25 25 01	33 158 N 118 348 W	10 13	3 3	2 2	2 11	3	2	1	1	4.36
831212	14 033	1	25 26 01	33 215 N 118 295 W	10 13	2 3	2 3	2 05	3	2	1	1	5.39
831212	14 044	1	25 26 02	33 230 N 118 287 W	10 13	1 2	2 3	2 05	3	2	1	1	1.64
831212	14 102	1	25 27 01	33 199 N 118 353 W	10 13	2 2	1 2	2 12	3	2	1	1	6.74
831212	14 163	1	25 28 01	33 253 N 118 308 W	10 13	2 3	2 3	2 06	3	2	1	1	6.62
831212	14 227	1	25 29 01	33 206 N 118 393 W	10 13	3 3	2 3	2 12	3	2	1	1	7.64
831212	14 285	1	25 30 01	33 264 N 118 345 W	10 13	2 3	2 3	2 06	3	2	1	1	5.87
831212	14 340	1	25 31 01	33 232 N 118 414 W	10 13	3 3	2 3	2 12	3	2	1	1	6.67
831212	14 473	1	25 32 01	33 343 N 118 310 W	10 13	2 3	2 3	2 06	3	2	1	1	13.92
831213	10 264	1	26 01 01	33 321 N 118 430 W	10 13	1 2	3 3	1 03	3	2	4	1	4.41
831213	10 335	1	26 01 01	33 389 N 118 352 W	10 13	1 2	3 3	1 03	3	2	4	1	7.57
831213	10 473	1	26 02 01	33 264 N 118 443 W	10 13	3 3	1 2	1 10	3	2	4	1	13.91
831213	10 579	1	26 03 01	33 343 N 118 302 W	10 13	1 2	3 3	1 04	2	2	4	1	13.91
831213	11 051	1	26 04 01	33 288 N 118 340 W	10 13	3 3	1 2	1 10	3	2	4	1	6.65
831213	11 110	1	26 05 01	33 341 N 118 260 W	10 13	1 2	3 3	1 04	3	2	4	1	7.50
831213	11 178	1	26 06 01	33 276 N 118 304 W	10 13	3 3	1 2	1 10	3	2	4	1	6.84
831213	11 235	1	26 07 01	33 323 N 118 228 W	10 13	1 2	3 3	1 04	2	2	4	1	7.41
831213	11 298	1	26 08 01	33 265 N 118 272 W	10 13	3 3	1 2	1 10	3	2	4	1	6.93
831213	11 357	1	26 09 01	33 306 N 118 185 W	10 13	1 2	3 3	1 04	2	2	4	1	7.62
831213	11 399	1	26 10 01	33 270 N 118 211 W	10 13	3 3	1 2	1 10	3	2	4	1	4.35
831213	11 436	1	26 10 01	33 260 N 118 225 W	10 13	3 3	1 2	1 10	3	2	4	1	1.60
831213	11 508	1	26 11 01	33 293 N 118 154 W	10 13	1 2	2 3	1 04	2	2	4	1	7.18

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
831213	11 568	1	26 12 01	33 232 N	118 211 W	10	13	2	3	1	2	1	10	2	2	4	1	6.53
831213	12 030	1	26 13 01	33 269 N	118 136 W	10	13	1	2	3	3	1	04	2	2	4	1	7.32
831213	12 087	1	26 14 01	33 208 N	118 188 W	10	13	2	3	2	3	1	11	2	2	4	1	6.74
831213	12 147	1	26 15 01	33 243 N	118 119 W	10	13	1	2	3	3	1	05	3	2	4	1	7.19
831213	12 192	1	26 16 01	33 201 N	118 148 W	10	13	3	3	1	2	1	11	2	2	4	1	3.97
831213	12 272	1	26 16 01	33 178 N	118 178 W	10	13	3	3	1	2	1	11	2	2	4	1	3.72
831213	12 311	1	26 16 02	33 125 N	118 230 W	10	13	3	3	1	2	1	11	3	2	4	1	6.85
831213	12 424	1	26 17 01	33 210 N	118 088 W	10	13	2	3	3	3	1	05	3	2	4	1	14.14
831213	12 478	1	26 18 01	33 149 N	118 105 W	10	13	2	3	1	2	1	11	2	2	4	1	4.72
831213	12 498	1	26 18 02	33 127 N	118 127 W	10	13	2	3	1	2	1	11	3	2	4	1	2.86
831213	12 540	1	26 18 03	33 082 N	118 182 W	10	13	3	3	1	2	1	11	3	2	4	1	6.43
831213	13 013	1	26 19 01	33 179 N	118 176 W	10	13	2	3	1	2	1	11	3	2	4	1	.13
831213	13 057	1	26 19 01	33 141 N	118 215 W	10	13	2	3	1	2	1	11	3	2	4	1	4.40
831213	13 069	1	26 19 02	33 125 N	118 231 W	10	13	3	3	1	2	1	11	3	2	4	1	2.08
831213	13 135	1	26 20 01	33 179 N	118 198 W	10	13	1	2	3	3	1	05	3	2	4	1	6.50
831213	13 189	1	26 21 01	33 137 N	118 273 W	10	13	3	3	1	2	1	11	3	2	4	1	7.27
831213	13 244	1	26 22 01	33 191 N	118 234 W	10	13	1	2	3	3	1	05	3	2	4	1	6.05
831213	13 303	1	26 23 01	33 142 N	118 316 W	10	13	3	3	2	3	1	11	3	2	4	1	6.95
831213	13 364	1	26 24 01	33 194 N	118 280 W	10	13	1	2	2	3	1	05	3	2	4	1	6.31
831213	13 422	1	26 25 01	33 158 N	118 349 W	10	13	3	3	2	3	1	11	3	2	4	1	7.02
831213	13 487	1	26 26 01	33 230 N	118 286 W	10	13	1	2	2	3	1	06	3	2	4	1	6.97
831213	13 509	1	26 27 01	33 234 N	118 309 W	10	13	1	2	1	2	1	12	2	2	4	1	1.85
831213	13 540	1	26 27 02	33 199 N	118 351 W	10	13	1	2	1	2	1	12	3	2	4	1	4.95
831213	13 597	1	26 28 01	33 252 N	118 310 W	10	13	1	2	3	3	1	06	3	2	4	1	6.42
831213	14 055	1	26 29 01	33 209 N	118 387 W	10	13	3	3	1	2	1	12	3	2	4	1	7.14
831213	14 112	1	26 30 01	33 264 N	118 345 W	10	13	2	3	2	3	1	06	3	2	4	1	5.98
831213	14 164	1	26 31 01	33 232 N	118 414 W	10	13	3	3	2	3	1	12	3	2	4	1	6.53
831213	14 277	1	26 32 01	33 344 N	118 304 W	10	13	1	2	2	3	2	06	3	2	4	1	13.81
831214	10 447	1	27 01 01	33 389 N	118 359 W	10	13	1	2	3	3	1	04	3	2	1	1	13.69
831214	10 562	1	27 02 01	33 279 N	118 429 W	10	13	3	3	1	2	1	10	3	2	1	1	12.09
831214	11 026	1	27 02 01	33 263 N	118 443 W	10	13	3	3	1	2	1	10	3	2	1	1	.57
831214	11 142	1	27 03 01	33 346 N	118 305 W	10	13	1	2	3	3	1	04	3	2	1	1	13.91
831214	11 212	1	27 04 01	33 287 N	118 343 W	10	13	3	3	1	2	1	10	2	1	1	2	6.65
831214	11 273	1	27 05 01	33 341 N	118 259 W	10	13	1	2	3	3	1	04	2	1	1	2	7.89
831214	11 334	1	27 06 01	33 277 N	118 305 W	10	13	3	3	1	2	1	10	2	1	1	2	6.97
831214	11 395	1	27 07 01	33 323 N	118 229 W	10	13	1	2	3	3	1	04	2	1	1	2	7.43
831214	11 457	1	27 08 01	33 265 N	118 271 W	10	13	3	3	1	2	1	10	2	1	1	2	6.73
831214	11 517	1	27 09 01	33 312 N	118 193 W	10	13	1	2	2	3	1	04	2	1	1	2	7.54
831214	11 595	1	27 10 01	33 254 N	118 232 W	10	13	2	3	1	2	1	10	2	1	1	2	6.73
831214	12 050	1	27 11 01	33 296 N	118 158 W	10	13	1	2	2	3	1	05	2	1	1	2	7.14
831214	12 082	1	27 12 01	33 265 N	118 167 W	10	13	2	3	1	2	1	11	2	1	1	2	1.67
831214	12 138	1	27 12 01	33 232 N	118 211 W	10	13	2	3	1	2	1	11	2	1	1	2	4.99
831214	12 196	1	27 13 01	33 270 N	118 138 W	10	13	1	2	2	3	1	05	2	1	1	2	7.16
831214	12 255	1	27 14 01	33 209 N	118 187 W	10	13	2	3	1	2	1	11	2	1	1	2	6.74
831214	12 318	1	27 15 01	33 246 N	118 118 W	10	13	1	2	2	3	1	05	1	1	1	2	7.45
831214	12 432	1	27 16 01	33 126 N	118 231 W	10	13	2	3	1	2	1	11	1	1	1	2	14.00

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
831214	12 547	1	27 17 01	33 212 N 118 084 W	10 13	1 2	2 3	1 05	2	2	1	1	14.63
831214	13 119	1	27 18 01	33 081 N 118 183 W	10 13	2 2	1 2	1 11	2	2	1	1	13.87
831214	13 197	1	27 19 01	33 167 N 118 186 W	10 13	2 2	1 2	1 11	2	2	1	1	2.16
831214	13 258	1	27 19 01	33 128 N 118 232 W	10 13	2 2	1 2	1 11	2	2	1	1	5.63
831214	13 322	1	27 20 01	33 178 N 118 198 W	10 13	1 2	2 3	1 06	3	2	1	1	6.55
831214	13 352	1	27 21 01	33 163 N 118 241 W	10 13	2 3	1 2	1 12	2	2	1	1	3.46
831214	13 375	1	27 21 02	33 138 N 118 272 W	10 13	2 3	1 2	1 12	3	2	1	1	3.60
831214	13 438	1	27 22 01	33 191 N 118 235 W	10 13	1 2	2 3	2 06	3	2	1	1	6.19
831214	13 496	1	27 23 01	33 141 N 118 315 W	10 13	2 2	2 3	2 12	3	2	1	1	7.08
831214	13 562	1	27 24 01	33 195 N 118 279 W	10 13	1 2	2 3	2 06	3	2	1	1	6.68
831214	14 022	1	27 25 01	33 158 N 118 347 W	10 13	2 3	2 3	2 12	3	2	1	1	6.90
831214	14 087	1	27 26 01	33 231 N 118 287 W	10 13	1 2	2 3	2 06	3	2	1	1	6.97
831214	14 118	1	27 27 01	33 228 N 118 319 W	10 13	2 3	2 3	2 12	2	2	1	1	2.95
831214	14 144	1	27 27 02	33 199 N 118 354 W	10 13	2 3	2 3	2 12	3	2	1	1	4.11
831214	14 197	1	27 28 01	33 253 N 118 310 W	10 13	1 2	2 3	2 12	3	2	1	1	6.31
831214	14 257	1	27 29 01	33 209 N 118 387 W	10 13	2 3	2 3	2 12	3	2	1	1	6.96
831214	14 316	1	27 30 01	33 265 N 118 345 W	10 13	1 2	2 3	2 06	3	2	1	1	6.54
831214	14 368	1	27 31 01	33 232 N 118 413 W	10 13	2 3	2 3	2 12	2	2	1	1	6.48
831214	14 448	1	27 32 01	33 308 N 118 345 W	10 13	2 3	2 3	2 06	2	2	1	1	8.85
831214	14 520	1	27 32 01	33 349 N 118 303 W	10 13	2 3	2 3	2 06	2	2	1	1	5.19
840109	11 207	1	28 01 01	33 387 N 118 358 W	10 13	2 3	3 3	2 04	2	1	4	2	13.72
840109	11 327	1	28 02 01	33 260 N 118 440 W	10 13	3 3	2 3	2 10	2	1	4	2	14.01
840109	11 418	1	28 03 01	33 318 N 118 338 W	10 13	2 3	3 3	2 04	2	1	4	2	10.06
840109	11 472	1	28 03 01	33 345 N 118 300 W	10 13	2 3	3 3	2 04	2	1	4	2	4.03
840109	11 535	1	28 04 01	33 290 N 118 342 W	10 13	3 3	2 3	2 11	1	1	4	2	6.84
840109	12 000	1	28 05 01	33 343 N 118 260 W	10 13	2 3	3 3	2 04	1	1	4	2	7.63
840109	12 065	1	28 06 01	33 277 N 118 304 W	10 13	3 3	2 3	2 11	2	1	4	2	6.74
840109	12 124	1	28 07 01	33 324 N 118 229 W	10 13	2 3	3 3	2 04	2	1	4	2	7.49
840109	12 197	1	28 08 01	33 265 N 118 269 W	10 13	3 3	2 3	2 11	1	1	4	2	6.63
840109	12 260	1	28 09 01	33 310 N 118 192 W	10 13	2 3	3 3	2 05	2	1	4	2	7.34
840109	12 308	1	28 10 01	33 268 N 118 213 W	10 13	3 3	2 3	2 11	2	1	4	2	4.66
840109	12 368	1	28 10 01	33 252 N 118 229 W	10 13	3 3	2 3	2 11	2	1	4	2	1.69
840109	12 423	1	28 11 01	33 297 N 118 159 W	10 13	2 3	3 3	2 05	2	1	4	2	6.80
840109	12 488	1	28 12 01	33 232 N 118 210 W	10 13	3 3	2 3	2 11	2	1	4	2	6.48
840109	12 548	1	28 13 01	33 271 N 118 140 W	10 13	2 3	3 3	2 05	2	1	4	2	7.06
840109	13 012	1	28 14 01	33 210 N 118 188 W	10 13	3 3	2 3	2 11	2	1	4	2	6.61
840109	13 072	1	28 15 01	33 245 N 118 121 W	10 13	2 3	3 3	2 05	2	1	4	2	6.86
840109	13 133	1	28 16 01	33 164 N 118 190 W	10 13	3 3	2 3	2 11	2	1	4	2	8.89
840109	13 183	1	28 16 01	33 136 N 118 218 W	10 13	3 3	2 3	2 11	2	1	4	2	3.51
840109	13 191	1	28 16 02	33 125 N 118 230 W	10 13	3 3	2 3	2 11	3	1	4	2	1.48
840109	13 248	1	28 17 01	33 150 N 118 159 W	10 13	2 3	3 3	2 05	3	1	4	2	5.77
840109	13 310	1	28 17 02	33 209 N 118 089 W	10 13	3 3	3 3	2 05	3	1	4	2	8.30
840109	13 422	1	28 18 01	33 085 N 118 177 W	10 13	3 3	3 3	2 12	2	1	4	2	13.62
840109	13 530	1	28 19 01	33 149 N 118 209 W	10 13	3 3	3 3	2 12	2	1	4	2	4.22
840109	13 550	1	28 19 02	33 128 N 118 232 W	10 13	3 3	3 3	2 12	3	1	4	2	2.84
840109	14 010	1	28 20 01	33 179 N 118 197 W	10 13	2 3	3 3	2 06	3	1	4	2	6.51

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840109	14 070	1	28 21 01	33 138 N	118 271 W	10	13	3	3	3	3	2	12	3	1	4	2	7.01
840109	14 128	1	28 22 01	33 191 N	118 235 W	10	13	2	3	3	3	2	06	3	1	4	2	6.21
840109	14 190	1	28 23 01	33 142 N	118 317 W	10	13	3	3	3	3	2	12	3	1	4	2	7.12
840109	14 252	1	28 24 01	33 195 N	118 281 W	10	13	2	3	2	3	2	06	3	1	4	2	6.41
840109	14 314	1	28 25 01	33 158 N	118 348 W	10	13	3	3	3	3	2	12	3	1	4	2	7.07
840109	14 381	1	28 26 01	33 231 N	118 286 W	10	13	2	3	3	3	2	06	3	1	4	2	7.16
840109	14 411	1	28 27 01	33 227 N	118 319 W	10	13	3	3	2	3	2	12	3	1	4	2	2.75
840109	14 438	1	28 27 02	33 201 N	118 354 W	10	13	3	3	3	3	2	12	3	1	4	2	3.91
840109	14 494	1	28 28 01	33 251 N	118 308 W	10	13	2	3	2	3	2	06	3	1	4	2	6.54
840109	14 556	1	28 29 01	33 208 N	118 386 W	10	13	2	3	3	3	2	12	3	1	4	2	7.14
840109	15 034	1	28 30 01	33 263 N	118 345 W	10	13	3	3	2	3	2	06	3	1	4	2	6.41
840109	15 088	1	28 31 01	33 230 N	118 412 W	10	13	3	3	3	3	2	12	3	1	4	2	6.68
840109	15 192	1	28 32 01	33 346 N	118 300 W	10	13	3	3	3	3	2	06	3	1	4	2	14.33
840110	11 078	1	29 01 01	33 385 N	118 361 W	10	13	1	2	3	3	2	04	3	1	4	1	13.46
840110	11 197	1	29 02 01	33 264 N	118 445 W	10	13	3	3	1	2	2	10	3	1	4	1	13.96
840110	11 243	1	29 03 01	33 269 N	118 393 W	10	13	1	2	3	3	2	04	3	1	4	1	3.39
840110	11 312	1	29 03 02	33 347 N	118 306 W	10	13	1	2	3	3	2	04	2	1	4	1	10.65
840110	11 374	1	29 04 01	33 288 N	118 342 W	10	13	3	3	1	2	2	10	2	1	4	1	6.71
840110	11 436	1	29 05 01	33 340 N	118 258 W	10	13	1	2	3	3	2	04	3	1	4	1	7.49
840110	11 547	1	29 06 01	33 277 N	118 308 W	10	13	3	3	1	2	2	11	2	1	4	1	6.21
840110	12 006	1	29 07 01	33 324 N	118 229 W	10	13	1	2	3	3	2	05	2	1	4	1	7.56
840110	12 066	1	29 08 01	33 264 N	118 271 W	10	13	2	3	1	2	2	11	2	1	4	1	6.81
840110	12 124	1	29 09 01	33 310 N	118 192 W	10	13	1	2	3	3	2	05	2	1	4	1	7.47
840110	12 188	1	29 10 01	33 253 N	118 231 W	10	13	3	3	2	3	2	11	3	1	4	1	6.71
840110	12 250	1	29 11 01	33 300 N	118 149 W	10	13	1	2	3	3	2	05	2	1	4	1	8.02
840110	12 319	1	29 12 01	33 233 N	118 211 W	10	13	3	3	2	3	2	11	3	1	4	1	6.47
840110	12 379	1	29 13 01	33 268 N	118 139 W	10	13	1	2	2	3	2	05	2	1	4	1	7.04
840110	12 399	1	29 14 01	33 250 N	118 135 W	10	13	3	3	2	3	2	11	3	1	4	1	.73
840110	12 452	1	29 14 01	33 208 N	118 186 W	10	13	3	3	2	3	2	11	3	1	4	1	5.73
840110	12 511	1	29 15 01	33 244 N	118 122 W	10	13	1	2	2	3	2	05	2	1	4	1	7.16
840110	13 023	1	29 16 01	33 125 N	118 232 W	10	13	3	3	2	3	2	11	3	1	4	1	14.43
840110	13 056	1	29 17 01	33 117 N	118 190 W	10	13	1	2	2	3	2	05	3	2	4	1	1.66
840110	13 091	1	29 17 02	33 159 N	118 145 W	10	13	1	2	2	3	2	05	2	2	4	1	5.63
840110	13 124	1	29 17 03	33 198 N	118 104 W	10	13	1	2	2	3	2	05	1	2	4	1	5.19
840110	13 136	1	29 17 04	33 211 N	118 089 W	10	13	1	2	2	3	2	05	2	2	4	1	1.80
840110	13 257	1	29 18 01	33 080 N	118 179 W	10	13	2	3	2	3	2	11	2	2	4	1	13.83
840110	13 343	1	29 19 01	33 155 N	118 201 W	10	13	1	2	1	2	2	12	1	2	4	1	3.54
840110	13 368	1	29 19 02	33 124 N	118 230 W	10	13	2	3	2	3	2	12	2	2	4	1	3.93
840110	13 432	1	29 20 01	33 175 N	118 198 W	10	13	2	3	2	3	2	06	3	2	4	1	6.42
840110	13 468	1	29 21 01	33 170 N	118 231 W	10	13	2	3	2	3	2	12	2	2	4	1	2.37
840110	13 499	1	29 21 02	33 136 N	118 270 W	10	13	2	3	2	3	2	12	3	2	4	1	4.71
840110	13 559	1	29 22 01	33 190 N	118 238 W	10	13	2	3	2	3	2	06	3	2	4	1	6.08
840110	14 015	1	29 23 01	33 141 N	118 316 W	10	13	2	3	2	3	2	12	3	2	4	1	7.14
840110	14 073	1	29 24 01	33 182 N	118 293 W	10	13	2	3	2	3	2	06	2	2	4	1	5.01
840110	14 084	1	29 24 02	33 194 N	118 279 W	10	13	2	3	2	3	2	06	3	2	4	1	1.67
840110	14 138	1	29 25 01	33 156 N	118 347 W	10	13	2	3	2	3	2	12	3	2	4	1	6.90

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840110	14 209	1	29 26 01	33 230 N	118 286 W	10	13	2	3	2	3	2	06	3	2	4	1	7.12
840110	14 265	1	29 27 01	33 198 N	118 352 W	10	13	2	3	2	3	2	12	2	2	4	1	6.87
840110	14 330	1	29 28 01	33 252 N	118 310 W	10	13	2	3	2	3	2	06	2	2	4	1	6.61
840110	14 391	1	29 29 01	33 208 N	118 388 W	10	13	2	3	2	3	2	12	2	2	4	1	7.25
840110	14 449	1	29 30 01	33 264 N	118 345 W	10	13	2	3	2	3	2	06	2	2	4	1	6.41
840110	14 503	1	29 31 01	33 230 N	118 414 W	10	13	2	3	2	3	2	12	2	2	4	1	6.80
840110	15 023	1	29 32 01	33 345 N	118 307 W	10	13	2	3	2	3	2	06	2	2	4	1	13.81
840111	11 033	1	30 01 01	33 368 N	118 374 W	10	13	1	2	3	3	2	04	3	1	2	1	11.49
840111	11 160	1	30 02 01	33 253 N	118 447 W	10	13	3	3	2	3	2	10	3	1	2	2	13.07
840111	11 232	1	30 03 01	33 297 N	118 361 W	10	13	2	3	3	3	2	04	2	1	2	2	8.16
840111	11 255	1	30 03 02	33 325 N	118 332 W	10	13	2	3	3	3	2	04	3	1	2	2	3.69
840111	11 278	1	30 03 03	33 347 N	118 302 W	10	13	2	3	3	3	2	04	2	1	2	2	3.33
840111	11 340	1	30 04 01	33 295 N	118 339 W	10	13	3	3	2	3	2	11	1	1	2	2	5.89
840111	11 347	1	30 04 02	33 288 N	118 346 W	10	13	3	3	2	3	2	11	2	1	2	2	.91
840111	11 405	1	30 05 01	33 333 N	118 270 W	10	13	2	3	3	3	2	05	2	1	2	2	6.41
840111	11 412	1	30 05 02	33 341 N	118 260 W	10	13	2	3	3	3	2	05	1	1	2	2	1.15
840111	11 477	1	30 06 01	33 277 N	118 307 W	10	13	3	3	2	3	2	11	1	1	2	2	6.95
840111	11 539	1	30 07 01	33 323 N	118 229 W	10	13	1	3	3	3	2	05	1	1	2	2	7.37
840111	12 002	1	30 08 01	33 266 N	118 272 W	10	13	3	3	2	3	2	11	1	1	2	2	6.93
840111	12 063	1	30 09 01	33 310 N	118 192 W	10	13	1	3	3	3	2	05	1	1	2	2	7.28
840111	12 123	1	30 10 01	33 261 N	118 222 W	10	13	3	3	2	3	2	11	1	1	2	2	5.74
840111	12 163	1	30 10 01	33 253 N	118 231 W	10	13	3	3	2	3	2	11	1	1	2	2	.73
840111	12 201	1	30 11 01	33 300 N	118 155 W	10	13	1	3	3	3	2	05	1	1	2	2	7.47
840111	12 286	1	30 12 01	33 232 N	118 210 W	10	13	3	3	2	3	2	11	1	1	2	2	6.48
840111	12 312	1	30 13 01	33 236 N	118 179 W	10	13	1	3	3	3	2	05	2	1	2	2	2.32
840111	12 343	1	30 13 02	33 271 N	118 140 W	10	13	1	3	3	3	2	05	1	1	2	2	4.77
840111	12 396	1	30 14 01	33 220 N	118 175 W	10	13	3	3	2	3	2	11	2	1	2	2	5.28
840111	12 406	1	30 14 02	33 209 N	118 186 W	10	13	3	3	2	3	2	11	1	1	2	2	1.43
840111	12 463	1	30 15 01	33 244 N	118 122 W	10	13	1	3	3	3	2	05	2	1	2	2	6.80
840111	12 524	1	30 16 01	33 189 N	118 164 W	10	13	3	3	2	3	2	11	2	1	2	2	5.65
840111	12 540	1	30 16 02	33 159 N	118 200 W	10	13	3	3	2	3	2	11	1	1	2	2	4.24
840111	12 575	1	30 16 03	33 126 N	118 233 W	10	13	3	3	2	3	2	11	2	1	2	2	4.30
840111	13 035	1	30 17 01	33 146 N	118 161 W	10	13	1	3	3	3	2	05	2	1	2	2	5.42
840111	13 123	1	30 17 01	33 210 N	118 085 W	10	13	1	3	3	3	2	05	2	1	2	2	9.25
840111	13 246	1	30 18 01	33 083 N	118 184 W	10	13	2	3	2	3	2	11	1	1	2	2	14.25
840111	13 355	1	30 19 01	33 126 N	118 234 W	10	13	2	3	2	3	2	12	2	1	2	2	7.74
840111	13 415	1	30 20 01	33 178 N	118 197 W	10	13	1	3	2	3	2	06	2	1	2	2	6.18
840111	13 470	1	30 21 01	33 138 N	118 274 W	10	13	2	3	2	3	2	12	2	1	2	2	7.25
840111	13 530	1	30 22 01	33 191 N	118 236 W	10	13	2	3	2	3	2	06	2	1	2	2	6.25
840111	13 590	1	30 23 01	33 142 N	118 319 W	10	13	2	3	2	3	2	12	2	1	2	2	7.31
840111	14 053	1	30 24 01	33 194 N	118 281 W	10	13	1	3	2	3	2	06	2	1	2	2	6.29
840111	14 112	1	30 25 01	33 159 N	118 349 W	10	13	2	3	2	3	2	12	2	1	2	2	6.89
840111	14 180	1	30 26 01	33 216 N	118 301 W	10	13	2	3	2	3	2	06	2	1	2	2	4.93
840111	14 191	1	30 26 02	33 231 N	118 286 W	10	13	1	2	2	3	2	06	2	1	2	2	1.95
840111	14 247	1	30 27 01	33 198 N	118 352 W	10	13	2	3	2	3	2	12	2	1	2	2	6.83
840111	14 287	1	30 28 01	33 229 N	118 337 W	10	13	2	3	2	3	2	06	2	1	2	2	3.07

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840111	14 308	1	30 28 02	33 251 N	118 310 W	10	13	1	2	2	3	2	06	2	1	2	2	3.14
840111	14 361	1	30 29 01	33 206 N	118 391 W	10	13	2	3	2	3	2	12	2	1	2	2	7.20
840111	14 419	1	30 30 01	33 263 N	118 348 W	10	13	2	3	2	3	2	06	2	1	2	2	6.22
840111	14 440	1	30 31 01	33 262 N	118 380 W	10	13	2	3	2	3	2	12	2	1	2	2	1.69
840111	14 490	1	30 31 01	33 231 N	118 417 W	10	13	2	3	2	3	2	12	2	1	2	2	4.31
840111	14 569	1	30 32 01	33 301 N	118 356 W	10	13	2	3	2	3	2	06	2	1	2	2	7.79
840111	15 016	1	30 32 02	33 346 N	118 306 W	10	13	2	3	2	3	2	06	1	1	2	2	6.13
840112	11 053	2	31 01 01	34 037 N	119 001 W	10	13	2	3	3	3	2	03	2	2	4	1	7.08
840112	11 112	2	31 02 01	33 580 N	119 042 W	10	13	2	3	2	3	2	10	1	2	4	1	7.18
840112	11 175	2	31 03 01	34 022 N	118 569 W	10	13	2	3	3	3	2	04	1	2	4	1	6.75
840112	11 236	2	31 04 01	33 565 N	119 008 W	10	13	2	3	3	3	2	10	1	2	4	1	7.39
840112	11 297	2	31 05 01	34 005 N	118 538 W	10	13	2	3	3	3	2	04	2	2	4	1	5.57
840112	11 311	2	31 05 02	34 020 N	118 520 W	10	13	2	3	3	3	2	04	1	2	4	1	2.11
840112	11 371	2	31 06 01	33 557 N	118 566 W	10	13	3	3	2	3	2	10	1	2	4	1	7.43
840112	11 444	2	31 07 01	33 599 N	118 486 W	10	13	2	3	3	3	2	04	2	2	4	1	7.81
840112	11 486	2	31 08 01	33 568 N	118 502 W	10	13	3	3	2	3	2	11	1	2	4	1	4.44
840112	11 505	2	31 08 02	33 548 N	118 525 W	10	13	3	3	2	3	2	11	2	2	4	1	2.76
840112	12 013	2	31 09 01	34 000 N	118 436 W	10	13	2	3	2	3	2	05	2	2	4	1	6.79
840112	12 077	2	31 10 01	33 542 N	118 480 W	10	13	3	3	2	3	2	11	2	2	4	1	7.78
840112	12 150	2	31 11 01	33 587 N	118 402 W	10	13	2	3	2	3	2	05	2	2	4	1	6.16
840112	12 163	2	31 11 02	34 000 N	118 386 W	10	13	2	3	2	3	2	05	1	2	4	1	1.85
840112	12 313	3	31 01 01	33 473 N	118 360 W	10	13	3	3	2	3	2	11	1	2	4	1	7.03
840112	12 383	3	31 02 01	33 518 N	118 277 W	10	13	2	3	2	3	2	05	1	2	4	1	7.26
840112	12 447	3	31 03 01	33 464 N	118 315 W	10	13	2	3	2	3	2	11	1	2	4	1	6.88
840112	12 511	3	31 04 01	33 502 N	118 249 W	10	13	2	3	2	3	2	05	1	2	4	1	7.14
840112	12 579	3	31 05 01	33 439 N	118 313 W	10	13	2	3	2	3	2	11	1	2	4	1	7.09
840112	13 055	3	31 06 01	33 461 N	118 259 W	10	13	2	3	2	3	2	05	1	2	4	1	6.52
840112	13 118	3	31 07 01	33 396 N	118 312 W	10	13	2	3	2	3	2	11	1	2	4	1	7.09
840112	13 188	3	31 08 01	33 439 N	118 238 W	10	13	2	3	2	3	2	05	1	2	4	1	7.34
840112	13 248	3	31 09 01	33 393 N	118 287 W	10	13	2	3	2	3	2	11	1	2	4	1	7.16
840112	13 317	3	31 10 01	33 432 N	118 207 W	10	13	2	3	2	3	2	06	1	2	4	1	6.63
840112	13 367	3	31 11 01	33 389 N	118 236 W	10	13	2	3	2	3	2	12	1	2	4	1	5.25
840112	13 396	3	31 11 01	33 377 N	118 251 W	10	13	2	3	2	3	2	12	1	2	4	1	1.22
840112	13 443	3	31 12 01	33 398 N	118 196 W	10	13	2	3	2	3	2	06	1	2	4	1	4.60
840112	13 477	3	31 12 01	33 420 N	118 175 W	10	13	2	3	2	3	2	06	1	2	4	1	2.15
840112	13 536	3	31 13 01	33 371 N	118 221 W	10	13	2	3	2	3	2	12	1	2	4	1	6.85
840112	14 123	3	31 14 01	33 386 N	118 121 W	10	13	2	3	2	3	2	06	1	2	4	1	7.12
840112	14 234	3	31 15 01	33 325 N	118 174 W	10	13	2	3	2	3	2	12	1	2	4	1	7.07
840112	14 278	3	31 16 01	33 342 N	118 124 W	10	13	2	3	2	3	2	06	1	2	4	1	3.69
840112	14 315	3	31 16 01	33 365 N	118 094 W	10	13	2	3	2	3	2	06	1	2	4	1	3.15
840112	14 377	3	31 17 01	33 308 N	118 156 W	10	13	2	3	2	3	2	12	1	2	4	1	7.18
840112	14 450	3	31 18 01	33 350 N	118 065 W	10	13	2	3	2	3	2	06	1	2	4	1	7.93
840112	14 523	3	31 19 01	33 283 N	118 122 W	10	13	2	3	2	3	2	12	1	2	4	1	7.07
840112	14 581	3	31 20 01	33 323 N	118 047 W	10	13	2	3	2	3	2	06	1	2	4	1	6.74
840112	15 054	3	31 21 01	33 263 N	118 098 W	10	13	3	3	2	3	2	12	1	2	4	1	7.07
840112	15 133	3	31 22 01	33 305 N	118 023 W	10	13	2	3	2	3	2	06	1	2	4	1	7.02

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840113	10 450	4	32 02 01	32 597 N	118 458 W	10	13	3	3	2	3	2	10	3	2	1	1	14.20
840113	10 556	4	32 03 01	33 083 N	118 313 W	10	13	2	3	3	3	2	04	2	2	1	1	13.55
840113	11 028	4	32 04 01	33 023 N	118 347 W	10	13	3	3	2	3	2	10	3	2	1	1	6.39
840113	11 133	4	32 05 01	33 069 N	118 275 W	10	13	2	3	3	3	2	04	3	2	1	1	7.23
840113	11 206	4	32 06 01	33 001 N	118 311 W	10	13	3	3	2	3	2	10	3	2	1	1	6.02
840113	11 212	4	32 06 02	33 002 N	118 326 W	10	13	3	3	2	3	2	10	2	2	1	1	1.26
840113	11 312	4	32 29 01	32 559 N	118 425 W	10	13	3	3	2	3	2	10	2	2	1	1	7.16
840113	11 373	4	32 28 01	32 598 N	118 355 W	10	13	2	3	3	3	2	04	2	2	1	1	6.97
840113	11 438	4	32 27 01	32 535 N	118 410 W	10	13	3	3	2	3	2	10	2	2	1	1	7.47
840909	08 350	8	01 01 01	46 328 N	124 044 W	04	32	3	3	3	3	3	04	2	2	3	6	17.01
840909	08 400	8	01 01 01	46 374 N	124 045 W	04	32	3	3	3	3	3	04	2	2	3	6	4.60
840909	09 060	8	01 02 01	47 180 N	124 160 W	04	32	3	3	3	3	3	04	2	2	3	6	41.35
840909	09 080	8	01 02 02	47 178 N	124 164 W	04	32	3	3	3	3	3	04	2	2	3	6	.33
840909	09 140	8	01 02 03	47 272 N	124 210 W	04	32	3	3	3	3	3	04	2	2	3	6	9.90
840909	09 150	8	01 02 04	47 271 N	124 247 W	04	32	3	3	3	3	3	04	2	2	3	6	2.50
840909	09 160	8	01 02 05	47 272 N	124 210 W	04	32	3	3	3	3	3	04	2	2	3	6	2.50
840909	09 190	8	01 02 06	47 320 N	124 216 W	04	32	3	3	3	3	3	04	2	2	3	6	4.81
840909	09 271	8	01 03 01	47 437 N	124 258 W	04	32	2	3	3	3	3	04	2	2	3	6	12.03
840909	09 351	8	01 03 01	47 447 N	124 262 W	04	32	2	3	3	3	3	04	2	2	3	6	1.03
840909	09 380	8	01 03 01	47 452 N	124 266 W	04	32	2	3	3	3	3	04	2	2	3	6	.56
840909	09 401	8	01 04 01	47 462 N	124 292 W	04	32	2	3	2	3	2	04	2	2	2	6	2.01
840909	09 521	8	01 04 01	47 492 N	124 304 W	04	32	2	3	2	3	2	04	2	2	2	6	3.10
840909	09 590	8	01 04 01	47 543 N	124 386 W	04	32	2	3	2	3	2	04	2	2	2	6	7.50
840909	09 596	8	01 05 01	47 555 N	124 391 W	04	32	2	2	2	2	2	04	2	2	3	6	1.24
840909	10 101	8	01 05 01	48 086 N	124 437 W	04	32	2	2	2	2	2	04	2	2	3	6	13.45
840909	10 260	8	01 05 01	48 238 N	124 444 W	04	32	2	2	2	2	2	04	2	2	3	6	15.20
840909	10 401	8	01 06 01	48 072 N	124 432 W	04	32	3	3	2	2	2	10	2	2	3	6	16.61
840909	10 461	8	01 06 01	47 587 N	124 409 W	04	32	3	3	2	2	2	10	2	2	3	6	8.63
840909	10 500	8	01 06 01	47 562 N	124 393 W	04	32	3	3	2	2	2	10	2	2	3	6	2.71
840909	11 221	8	01 07 01	47 484 N	124 297 W	04	32	3	3	2	2	2	11	2	2	3	6	10.11
840909	11 291	8	01 07 01	47 402 N	124 246 W	04	32	3	3	2	2	2	11	2	2	3	6	8.88
840909	11 311	8	01 07 01	47 394 N	124 240 W	04	32	3	3	2	2	2	11	2	2	3	6	.89
840909	11 341	8	01 07 01	47 387 N	124 238 W	04	32	3	3	2	2	2	11	2	2	3	6	.71
840909	11 440	8	01 07 01	47 287 N	124 210 W	04	32	3	3	2	2	2	11	2	2	3	6	10.17
840909	11 451	8	01 08 01	47 278 N	124 210 W	04	32	2	2	2	2	1	11	2	2	2	6	.89
840909	11 481	8	01 08 01	47 263 N	124 208 W	04	32	2	2	2	2	1	11	2	2	2	6	1.50
840909	11 501	8	01 08 01	47 244 N	124 206 W	04	32	2	2	2	2	1	11	2	2	2	6	1.90
840909	12 001	8	01 08 01	47 141 N	124 135 W	04	32	2	2	2	2	1	11	2	2	2	6	11.36
840909	12 080	8	01 08 01	47 075 N	124 117 W	04	32	2	2	2	2	1	11	2	2	2	6	6.71
840909	12 121	8	01 09 01	47 053 N	124 110 W	04	32	2	2	2	2	1	11	2	2	1	6	2.25
840909	12 211	8	01 09 01	46 575 N	124 110 W	04	32	2	2	2	2	1	11	2	2	1	6	7.80
840909	12 240	8	01 09 01	46 544 N	124 100 W	04	32	2	2	2	2	1	11	2	2	1	6	3.17
840909	13 581	8	01 10 01	46 465 N	124 065 W	04	32	2	2	2	2	1	12	2	2	1	6	8.25
840909	14 101	8	01 10 01	46 332 N	124 045 W	04	32	2	2	2	2	1	12	2	2	1	6	13.37
840909	14 171	8	01 10 01	46 259 N	124 040 W	04	32	2	2	2	2	1	12	2	2	1	6	7.30
840909	14 191	8	01 10 01	46 250 N	124 041 W	04	32	2	2	2	2	1	12	2	2	1	6	.90

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840909	14 211	8	01 10 01	46 234 N	124 042 W	04	32	2	2	2	2	1	12	2	2	1	6	1.60
840909	14 231	8	01 10 01	46 221 N	124 040 W	04	32	2	2	2	2	1	12	2	2	1	6	1.30
840909	14 281	8	01 10 01	46 147 N	124 054 W	04	32	2	2	2	2	1	12	2	2	1	6	7.46
840909	14 300	8	01 10 01	46 140 N	124 028 W	04	32	2	2	2	2	1	12	2	2	1	6	1.92
840909	14 361	8	01 11 01	46 066 N	123 572 W	04	32	2	2	2	2	1	01	2	2	2	6	8.35
840909	14 411	8	01 11 01	46 050 N	123 567 W	04	32	2	2	2	2	1	01	2	2	2	6	1.63
840909	14 451	8	01 11 01	46 037 N	123 564 W	04	32	2	2	2	2	1	01	2	2	2	6	1.31
840909	14 511	8	01 11 01	46 000 N	123 565 W	04	32	2	2	2	2	1	01	2	2	2	6	3.70
840909	15 071	8	01 11 01	45 443 N	123 582 W	04	32	2	2	2	2	1	01	2	2	2	6	15.74
840909	15 251	8	01 11 01	45 182 N	123 585 W	04	32	2	2	2	2	1	01	2	2	2	6	26.10
840909	15 311	8	01 11 01	45 095 N	123 593 W	04	32	2	2	2	2	1	01	2	2	2	6	8.71
840909	15 351	8	01 11 01	45 074 N	123 597 W	04	32	2	2	2	2	1	01	2	2	2	6	2.11
840909	15 560	8	01 11 01	44 367 N	124 052 W	04	32	2	2	2	2	1	01	2	2	2	6	30.94
840909	16 351	8	01 12 01	44 494 N	124 047 W	04	32	3	3	2	2	2	07	2	2	1	6	12.70
840909	16 411	8	01 12 01	44 568 N	124 020 W	04	32	3	3	2	2	2	07	2	2	1	6	7.64
840909	17 031	8	01 12 01	45 213 N	123 596 W	04	32	3	3	2	2	2	07	2	2	1	6	24.55
840909	17 151	8	01 12 01	45 303 N	123 587 W	04	32	3	3	2	2	2	07	2	2	1	6	9.02
840909	17 271	8	01 12 01	45 421 N	123 572 W	04	32	3	3	2	2	2	07	2	2	1	6	11.84
840909	17 331	8	01 12 01	45 468 N	123 587 W	04	32	3	3	2	2	2	07	2	2	1	6	4.81
840909	17 550	8	01 12 01	45 140 N	124 026 W	04	32	3	3	2	2	2	07	2	2	1	6	32.91
840910	08 171	8	02 01 01	45 568 N	123 598 W	32	04	2	2	2	2	3	10	1	2	3	6	17.68
840910	08 221	8	02 01 01	45 506 N	123 583 W	32	04	2	2	2	2	3	10	1	2	3	6	6.28
840910	08 261	8	02 01 01	45 499 N	123 583 W	32	04	2	2	2	2	3	10	1	2	3	6	.70
840910	08 281	8	02 01 01	45 489 N	123 584 W	32	04	2	2	2	2	3	10	1	2	3	6	1.00
840910	08 301	8	02 01 01	45 468 N	123 587 W	32	04	2	2	2	2	3	10	1	2	3	6	2.11
840910	08 340	8	02 01 01	45 408 N	123 568 W	32	04	2	2	2	2	3	10	1	2	3	6	6.14
840910	08 371	8	02 02 01	45 361 N	123 573 W	32	04	2	2	2	2	3	10	1	2	3	6	4.71
840910	08 511	8	02 02 01	45 204 N	124 008 W	32	04	2	2	2	2	3	10	1	2	3	6	15.89
840910	08 531	8	02 02 01	45 200 N	124 005 W	32	04	2	2	2	2	3	10	1	2	3	6	.45
840910	08 591	8	02 02 01	45 160 N	123 585 W	32	04	2	2	2	2	3	10	1	2	3	6	4.24
840910	09 011	8	02 02 01	45 152 N	123 587 W	32	04	2	2	2	2	3	10	1	2	3	6	.81
840910	09 051	8	02 02 01	45 118 N	123 590 W	32	04	2	2	2	2	3	10	1	2	3	6	3.40
840910	09 081	8	02 02 01	45 108 N	123 591 W	32	04	2	2	2	2	3	10	1	2	3	6	1.00
840910	09 121	8	02 02 01	45 091 N	123 592 W	32	04	2	2	2	2	3	10	1	2	3	6	1.70
840910	09 180	8	02 02 01	45 037 N	124 015 W	32	04	2	2	2	2	3	10	1	2	3	6	5.63
840910	09 331	8	02 03 01	44 398 N	124 041 W	32	04	2	2	2	2	2	10	1	2	3	6	23.97
840910	09 351	8	02 03 01	44 384 N	124 043 W	32	04	2	2	2	2	2	10	1	2	3	6	1.40
840910	09 390	8	02 03 01	44 367 N	124 053 W	32	04	2	2	2	2	2	10	1	2	3	6	1.84
840910	10 141	8	02 04 01	44 364 N	124 050 W	32	04	2	2	2	2	2	11	1	2	1	6	.36
840910	10 171	8	02 04 01	44 355 N	124 047 W	32	04	2	2	2	2	2	11	1	2	1	6	.92
840910	10 191	8	02 04 01	44 352 N	124 050 W	32	04	2	2	2	2	2	11	1	2	1	6	.36
840910	10 221	8	02 04 01	44 335 N	124 052 W	32	04	2	2	2	2	2	11	1	2	1	6	1.70
840910	10 241	8	02 04 01	44 313 N	124 056 W	32	04	2	2	2	2	2	11	1	2	1	6	2.21
840910	10 271	8	02 04 01	44 272 N	124 056 W	32	04	2	2	2	2	2	11	1	2	1	6	4.10
840910	10 301	8	02 04 01	44 253 N	124 057 W	32	04	2	2	2	2	2	11	1	2	1	6	1.90
840910	10 311	8	02 04 01	44 247 N	124 057 W	32	04	2	2	2	2	2	11	1	2	1	6	.60

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840910	10 391	8	02 04 01	44 168 N	124 075 W	32	04	2	2	2	2	2	11	1	2	1	6	8.00
840910	10 451	8	02 04 01	44 131 N	124 078 W	32	04	2	2	2	2	2	11	1	2	1	6	3.70
840910	10 511	8	02 04 01	44 073 N	124 083 W	32	04	2	2	2	2	2	11	1	2	1	6	5.81
840910	10 541	8	02 04 01	44 045 N	124 087 W	32	04	2	2	2	2	2	11	1	2	1	6	2.81
840910	10 571	8	02 04 01	44 030 N	124 087 W	32	04	2	2	2	2	2	11	1	2	1	6	1.49
840910	11 011	8	02 04 01	43 585 N	124 091 W	32	04	2	2	2	2	2	11	1	2	1	6	4.50
840910	11 031	8	02 04 01	43 575 N	124 093 W	32	04	2	2	2	2	2	11	1	2	1	6	1.01
840910	11 061	8	02 04 01	43 567 N	124 095 W	32	04	2	2	2	2	2	11	1	2	1	6	.81
840910	11 111	8	02 04 01	43 550 N	124 100 W	32	04	2	2	2	2	2	11	1	2	1	6	1.73
840910	11 161	8	02 05 01	43 511 N	124 105 W	32	04	2	2	2	2	1	11	2	2	1	6	3.91
840910	11 181	8	02 05 01	43 498 N	124 109 W	32	04	2	2	2	2	1	11	2	2	1	6	1.33
840910	11 211	8	02 05 01	43 484 N	124 111 W	32	04	2	2	2	2	1	11	2	2	1	6	1.40
840910	11 231	8	02 05 01	43 468 N	124 112 W	32	04	2	2	2	2	1	11	2	2	1	6	1.60
840910	11 281	8	02 05 01	43 444 N	124 119 W	32	04	2	2	2	2	1	11	2	2	1	6	2.45
840910	11 301	8	02 05 01	43 433 N	124 123 W	32	04	2	2	2	2	1	11	2	2	1	6	1.13
840910	11 331	8	02 05 01	43 430 N	124 126 W	32	04	2	2	2	2	1	11	2	2	1	6	.37
840910	11 361	8	02 05 01	43 417 N	124 128 W	32	04	2	2	2	2	1	11	2	2	1	6	1.30
840910	11 380	8	02 05 01	43 402 N	124 133 W	32	04	2	2	2	2	1	11	2	2	1	6	1.54
840910	11 421	8	02 06 01	43 356 N	124 143 W	32	04	2	2	2	2	1	11	3	2	1	6	4.65
840910	11 451	8	02 06 01	43 335 N	124 149 W	32	04	2	2	2	2	1	11	3	2	1	6	2.14
840910	11 471	8	02 06 01	43 307 N	124 160 W	32	04	2	2	2	2	1	11	3	2	1	6	2.91
840910	11 511	8	02 06 01	43 279 N	124 174 W	32	04	2	2	2	2	1	11	3	2	1	6	2.97
840910	11 551	8	02 06 01	43 262 N	124 182 W	32	04	2	2	2	2	1	11	3	2	1	6	1.79
840910	12 011	8	02 06 01	43 246 N	124 191 W	32	04	2	2	2	2	1	11	3	2	1	6	1.72
840910	12 070	8	02 06 01	43 183 N	124 245 W	32	04	2	2	2	2	1	11	3	2	1	6	7.42
840910	12 141	8	02 07 01	43 028 N	124 276 W	32	04	2	2	2	2	1	11	4	2	1	6	15.66
840910	12 190	8	02 07 01	43 014 N	124 278 W	32	04	2	2	2	2	1	11	4	2	1	6	1.40
840910	12 211	8	02 07 01	42 587 N	124 291 W	32	04	2	2	2	2	1	11	4	2	1	6	2.86
840910	12 231	8	02 07 01	42 571 N	124 302 W	32	04	2	2	2	2	1	11	4	2	1	6	1.79
840910	12 251	8	02 07 01	42 553 N	124 314 W	32	04	2	2	2	2	1	11	4	2	1	6	2.00
840910	12 291	8	02 07 01	42 518 N	124 343 W	32	04	2	2	2	2	1	11	4	2	1	6	4.09
840910	12 390	8	02 07 01	42 405 N	124 273 W	32	04	2	2	2	2	1	11	4	2	1	6	12.41
840910	12 440	8	02 08 01	42 445 N	124 313 W	32	04	2	2	2	2	1	11	5	2	1	6	4.96
840910	13 101	8	02 09 01	43 203 N	124 232 W	32	04	2	2	2	2	1	05	4	2	1	6	18.53
840910	13 111	8	02 09 01	43 208 N	124 222 W	32	04	2	2	2	2	1	05	4	2	1	6	.88
840910	13 150	8	02 09 01	43 214 N	124 213 W	32	04	2	2	2	2	1	05	4	2	1	6	.88
840910	14 371	8	02 10 01	43 239 N	124 194 W	04	32	3	3	3	3	4	06	4	2	1	6	2.85
840910	14 421	8	02 10 01	43 256 N	124 183 W	04	32	3	3	3	3	4	06	4	2	1	6	1.87
840910	14 550	8	02 10 01	43 402 N	124 132 W	04	32	3	3	3	3	4	06	4	2	1	6	15.06
840910	15 271	8	02 11 01	44 187 N	124 072 W	04	32	3	3	3	3	5	13	3	2	4	6	38.74
840910	15 440	8	02 11 01	44 366 N	124 052 W	04	32	3	3	3	3	5	13	3	2	4	6	17.95
840910	15 491	8	02 12 01	44 427 N	124 044 W	04	32	2	2	2	2	1	07	3	2	2	6	6.12
840910	16 050	8	02 12 01	45 028 N	124 014 W	04	32	2	2	2	2	1	07	3	2	2	6	20.21
840910	16 080	8	02 12 01	45 028 N	124 014 W	04	32	2	2	2	2	1	07	3	2	2	6	.00
840910	16 101	8	02 13 01	45 067 N	124 014 W	04	32	2	2	2	2	2	08	2	2	2	6	3.89
840910	16 191	8	02 13 01	45 183 N	123 587 W	04	32	2	2	2	2	2	08	2	2	2	6	11.75

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840910	16 381	8	02 13 01	45 377 N	123 573 W	04	32	2	2	2	2	2	08	2	2	2	6	19.42
840910	16 421	8	02 13 01	45 421 N	123 569 W	04	32	2	2	2	2	2	08	2	2	2	6	4.40
840910	16 451	8	02 13 01	45 433 N	123 571 W	04	32	2	2	2	2	2	08	2	2	2	6	1.20
840910	16 481	8	02 13 01	45 437 N	123 573 W	04	32	2	2	2	2	2	08	2	2	2	6	.42
840910	16 510	8	02 13 01	45 477 N	123 588 W	04	32	2	2	2	2	2	08	2	2	2	6	4.13
840910	16 590	8	02 13 01	45 556 N	123 592 W	04	32	2	2	2	2	2	08	2	2	2	6	7.90
840910	17 101	8	02 14 01	45 576 N	123 587 W	04	32	3	3	3	3	2	08	2	2	2	6	2.02
840910	17 170	8	02 14 01	46 140 N	124 057 W	04	32	3	3	3	3	2	08	2	2	2	6	17.10
840911	08 111	8	03 01 01	44 358 N	124 047 W	04	32	3	3	2	3	3	09	1	2	2	6	.78
840911	08 151	8	03 01 01	44 323 N	124 052 W	04	32	3	3	2	3	3	09	1	2	2	6	3.51
840911	08 400	8	03 01 01	44 027 N	124 087 W	04	32	3	3	2	3	3	09	1	2	2	6	29.70
840911	08 551	8	03 02 01	43 437 N	124 121 W	04	32	3	3	2	3	3	09	2	1	1	6	8.95
840911	09 001	8	03 02 01	43 384 N	124 136 W	04	32	3	3	2	3	3	09	2	1	1	6	5.40
840911	09 021	8	03 02 01	43 365 N	124 140 W	04	32	3	3	2	3	3	09	2	1	1	6	1.92
840911	09 050	8	03 02 01	43 356 N	124 140 W	04	32	3	3	2	3	3	09	2	1	1	6	.89
840911	09 071	8	03 03 01	43 346 N	124 147 W	04	32	3	3	2	3	3	09	1	2	1	6	1.12
840911	09 101	8	03 03 01	43 317 N	124 155 W	04	32	3	3	2	3	3	09	1	2	1	6	2.95
840911	09 131	8	03 03 01	43 297 N	124 163 W	04	32	3	3	2	3	3	09	1	2	1	6	2.08
840911	09 161	8	03 03 01	43 287 N	124 168 W	04	32	3	3	2	3	3	09	1	2	1	6	1.06
840911	09 221	8	03 03 01	43 271 N	124 174 W	04	32	3	3	2	3	3	09	1	2	1	6	1.65
840911	09 251	8	03 03 01	43 263 N	124 180 W	04	32	3	3	2	3	3	09	1	2	1	6	.91
840911	09 271	8	03 03 01	43 251 N	124 187 W	04	32	3	3	2	3	3	09	1	2	1	6	1.30
840911	09 291	8	03 03 01	43 237 N	124 194 W	04	32	3	3	2	3	3	09	1	2	1	6	1.48
840911	09 310	8	03 03 01	43 228 N	124 200 W	04	32	3	3	2	3	3	09	1	2	1	6	1.00
840911	09 321	8	03 04 01	43 222 N	124 205 W	04	32	2	3	2	3	3	09	1	2	1	6	.70
840911	09 341	8	03 04 01	43 217 N	124 212 W	04	32	2	3	2	3	3	09	1	2	1	6	.71
840911	09 371	8	03 04 01	43 215 N	124 216 W	04	32	2	3	2	3	3	09	1	2	1	6	.35
840911	09 411	8	03 04 01	43 177 N	124 242 W	04	32	2	3	2	3	3	09	1	2	1	6	4.24
840911	09 441	8	03 04 01	43 153 N	124 240 W	04	32	2	3	2	3	3	09	1	2	1	6	2.40
840911	09 481	8	03 04 01	43 127 N	124 247 W	04	32	2	3	2	3	3	09	1	2	1	6	2.64
840911	09 511	8	03 04 01	43 098 N	124 257 W	04	32	2	3	2	3	3	09	1	2	1	6	2.99
840911	09 561	8	03 04 01	43 044 N	124 259 W	04	32	2	3	2	3	3	09	1	2	1	6	5.40
840911	09 581	8	03 04 01	43 026 N	124 278 W	04	32	2	3	2	3	3	09	1	2	1	6	2.27
840911	10 001	8	03 04 01	42 582 N	124 291 W	04	32	2	3	2	3	3	09	1	2	1	6	4.50
840911	10 016	8	03 04 01	42 577 N	124 293 W	04	32	2	3	2	3	3	09	1	2	1	6	.52
840911	10 031	8	03 04 01	42 573 N	124 296 W	04	32	2	3	2	3	3	09	1	2	1	6	.45
840911	10 046	8	03 04 01	42 568 N	124 297 W	04	32	2	3	2	3	3	09	1	2	1	6	.50
840911	10 061	8	03 04 01	42 565 N	124 298 W	04	32	2	3	2	3	3	09	1	2	1	6	.30
840911	10 081	8	03 04 01	42 563 N	124 300 W	04	32	2	3	2	3	3	09	1	2	1	6	.24
840911	10 096	8	03 04 01	42 553 N	124 305 W	04	32	2	3	2	3	3	09	1	2	1	6	1.06
840911	10 111	8	03 04 01	42 550 N	124 307 W	04	32	2	3	2	3	3	09	1	2	1	6	.33
840911	10 131	8	03 04 01	42 547 N	124 311 W	04	32	2	3	2	3	3	09	1	2	1	6	.41
840911	10 191	8	03 04 01	42 523 N	124 331 W	04	32	2	3	2	3	3	09	1	2	1	6	2.81
840911	10 206	8	03 04 01	42 519 N	124 328 W	04	32	2	3	2	3	3	09	1	2	1	6	.45
840911	10 221	8	03 04 01	42 508 N	124 338 W	04	32	2	3	2	3	3	09	1	2	1	6	1.32
840911	10 230	8	03 04 01	42 503 N	124 340 W	04	32	2	3	2	3	3	09	1	2	1	6	.52

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840911	10 271	8	03 05 01	42 450 N	124 318 W	04	32	2	2	2	2	3	10	1	2	1	6	5.54
840911	10 351	8	03 05 01	42 376 N	124 248 W	04	32	2	2	2	2	3	10	1	2	1	6	9.01
840911	10 371	8	03 05 01	42 366 N	124 247 W	04	32	2	2	2	2	3	10	1	2	1	6	1.00
840911	10 390	8	03 05 01	42 357 N	124 249 W	04	32	2	2	2	2	3	10	1	2	1	6	.91
840911	10 416	8	03 06 01	42 345 N	124 245 W	04	32	2	2	2	2	3	10	1	2	1	6	1.23
840911	10 441	8	03 06 01	42 334 N	124 244 W	04	32	2	2	2	2	3	10	1	2	1	6	1.10
840911	10 490	8	03 06 01	42 252 N	124 260 W	04	32	2	2	2	2	3	10	1	2	1	6	.00
840911	11 121	8	03 07 01	42 229 N	124 262 W	04	32	2	2	2	2	3	11	2	2	1	6	2.30
840911	11 160	8	03 07 01	42 184 N	124 251 W	04	32	2	2	2	2	3	11	2	2	1	6	4.57
840911	11 191	8	03 08 01	42 140 N	124 245 W	04	32	2	2	2	2	3	11	3	2	1	6	4.42
840911	11 231	8	03 08 01	42 079 N	124 217 W	04	32	2	2	2	2	3	11	3	2	1	6	6.44
840911	11 260	8	03 08 01	42 047 N	124 203 W	04	32	2	2	2	2	3	11	3	2	1	6	3.36
840911	11 300	8	03 09 01	42 000 N	124 133 W	04	32	2	2	2	2	4	12	4	2	1	6	7.00
840911	11 381	7	03 09 02	41 483 N	124 150 W	04	32	2	2	2	2	4	12	4	2	1	6	11.76
840911	11 400	7	03 09 02	41 457 N	124 143 W	04	32	2	2	2	2	4	12	4	2	1	6	2.65
840911	11 431	7	03 10 01	41 433 N	124 095 W	04	32	2	2	2	2	4	12	2	2	1	6	4.31
840911	11 446	7	03 10 01	41 427 N	124 093 W	04	32	2	2	2	2	4	12	2	2	1	6	.61
840911	11 461	7	03 10 01	41 422 N	124 091 W	04	32	2	2	2	2	4	12	2	2	1	6	.52
840911	11 561	7	03 10 01	41 301 N	124 053 W	04	32	2	2	2	2	4	12	2	2	1	6	12.42
840911	11 591	7	03 10 01	41 288 N	124 048 W	04	32	2	2	2	2	4	12	2	2	1	6	1.35
840911	12 021	7	03 10 01	41 272 N	124 045 W	04	32	2	2	2	2	4	12	2	2	1	6	1.61
840911	12 081	7	03 10 01	41 207 N	124 048 W	04	32	2	2	2	2	4	12	2	2	1	6	6.50
840911	12 121	7	03 10 01	41 190 N	124 057 W	04	32	2	2	2	2	4	12	2	2	1	6	1.82
840911	12 141	7	03 10 01	41 180 N	124 060 W	04	32	2	2	2	2	4	12	2	2	1	6	1.02
840911	12 161	7	03 10 01	41 165 N	124 062 W	04	32	2	2	2	2	4	12	2	2	1	6	1.50
840911	12 181	7	03 10 01	41 155 N	124 065 W	04	32	2	2	2	2	4	12	2	2	1	6	1.02
840911	12 216	7	03 10 01	41 123 N	124 075 W	04	32	2	2	2	2	4	12	2	2	1	6	3.28
840911	12 236	7	03 10 01	41 122 N	124 075 W	04	32	2	2	2	2	4	12	2	2	1	6	.09
840911	12 251	7	03 10 01	41 114 N	124 078 W	04	32	2	2	2	2	4	12	2	2	1	6	.83
840911	12 266	7	03 10 01	41 107 N	124 082 W	04	32	2	2	2	2	4	12	2	2	1	6	.76
840911	12 281	7	03 10 01	41 094 N	124 098 W	04	32	2	2	2	2	4	12	2	2	1	6	1.77
840911	12 401	7	03 10 01	40 521 N	124 116 W	04	32	2	2	2	2	4	12	2	2	1	6	17.35
840911	12 431	7	03 10 01	40 502 N	124 117 W	04	32	2	2	2	2	4	12	2	2	1	6	1.90
840911	12 451	7	03 10 01	40 488 N	124 125 W	04	32	2	2	2	2	4	12	2	2	1	6	1.52
840911	12 476	7	03 10 01	40 458 N	124 143 W	04	32	2	2	2	2	4	12	2	2	1	6	3.29
840911	12 486	7	03 10 01	40 442 N	124 155 W	04	32	2	2	2	2	4	12	2	2	1	6	1.84
840911	12 531	7	03 10 01	40 408 N	124 180 W	04	32	2	2	2	2	4	12	2	2	1	6	3.89
840911	12 571	7	03 10 01	40 363 N	124 207 W	04	32	2	2	2	2	4	12	2	2	1	6	4.94
840911	13 020	7	03 10 01	40 313 N	124 233 W	04	32	2	2	2	2	4	12	2	2	1	6	5.37
840911	13 051	7	03 11 01	40 340 N	124 220 W	04	32	2	2	2	2	4	06	3	2	1	6	2.87
840911	13 081	7	03 11 01	40 354 N	124 211 W	04	32	2	2	2	2	4	06	3	2	1	6	1.55
840911	13 131	7	03 11 01	40 406 N	124 182 W	04	32	2	2	2	2	4	06	3	2	1	6	5.64
840911	13 161	7	03 11 01	40 428 N	124 166 W	04	32	2	2	2	2	4	06	3	2	1	6	2.51
840911	13 200	7	03 11 01	40 458 N	124 143 W	04	32	2	2	2	2	4	06	3	2	1	6	3.46
840911	13 211	7	03 12 01	40 464 N	124 142 W	04	32	2	2	2	2	4	06	2	2	1	6	.60
840911	13 241	7	03 12 01	40 484 N	124 127 W	04	32	2	2	2	2	4	06	2	2	1	6	2.29

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840911	13 271	7	03 12 01	40 509 N	124 112 W	04	32	2	2	2	2	4	06	2	2	1	6	2.74
840911	13 310	7	03 12 01	40 543 N	124 094 W	04	32	2	2	2	2	4	06	2	2	1	6	3.66
840911	15 241	7	03 13 01	41 022 N	124 080 W	32	04	2	2	2	2	2	08	3	2	1	6	2.81
840911	15 280	7	03 13 01	41 077 N	124 103 W	32	04	2	2	2	2	2	08	3	2	1	6	3.92
840911	15 291	7	03 14 01	41 092 N	124 090 W	32	04	2	2	2	2	2	08	2	2	1	6	1.79
840911	15 341	7	03 14 01	41 130 N	124 072 W	32	04	2	2	2	2	2	08	2	2	1	6	4.03
840911	15 361	7	03 14 01	41 138 N	124 069 W	32	04	2	2	2	2	2	08	2	2	1	6	.83
840911	15 381	7	03 14 01	41 172 N	124 060 W	32	04	2	2	2	2	2	08	2	2	1	6	3.46
840911	15 401	7	03 14 01	41 193 N	124 054 W	32	04	2	2	2	2	2	08	2	2	1	6	2.14
840911	15 450	7	03 14 01	41 243 N	124 045 W	32	04	2	2	2	2	2	08	2	2	1	6	.00
840911	15 510	7	03 15 01	41 328 N	124 052 W	32	04	2	3	2	2	2	08	5	2	1	6	8.51
840911	16 240	8	03 16 01	42 164 N	124 249 W	32	04	2	2	2	2	2	08	3	2	1	6	1.62
840911	16 350	8	03 16 01	42 252 N	124 260 W	32	04	2	2	2	2	2	08	3	2	1	6	8.83
840911	16 356	8	03 17 01	42 260 N	124 265 W	32	04	2	2	2	2	2	08	2	2	1	6	.88
840911	16 561	8	03 17 01	42 525 N	124 327 W	32	04	2	2	2	2	2	08	2	2	1	6	26.88
840911	17 200	8	03 17 01	43 215 N	124 212 W	32	04	2	2	2	2	2	08	2	2	1	6	30.19
840911	17 330	8	03 18 01	43 402 N	124 132 W	32	04	3	3	2	2	2	08	2	2	1	6	19.57
840913	08 150	7	04 01 01	34 346 N	120 390 W	09	04	2	2	2	2	3	05	0	2	1	6	11.83
840913	08 411	7	04 02 01	35 082 N	120 388 W	09	04	2	2	3	3	3	04	2	1	3	6	33.60
840913	09 000	7	04 02 01	35 220 N	120 522 W	09	04	2	2	3	3	3	04	2	1	3	6	17.61
840913	09 200	7	04 03 01	35 392 N	121 151 W	09	04	2	2	3	3	3	04	2	2	1	6	25.36
840913	09 221	7	04 04 01	35 397 N	121 171 W	09	04	2	2	2	2	2	05	1	2	1	6	1.70
840913	10 020	7	04 04 01	36 200 N	121 540 W	09	04	2	2	2	2	2	05	1	2	1	6	50.15
840913	10 120	7	04 05 01	36 326 N	121 562 W	09	04	2	2	2	2	2	05	2	2	1	6	12.12
840913	10 191	7	04 06 01	36 378 N	121 544 W	09	04	2	2	2	2	2	05	2	2	1	6	5.39
840913	10 220	7	04 06 01	36 368 N	121 532 W	09	04	2	2	2	2	2	05	2	2	1	6	1.38
840913	10 270	7	04 07 01	36 417 N	121 492 W	09	04	2	2	2	2	2	05	2	2	1	6	5.85
840913	10 381	7	04 07 01	36 500 N	121 484 W	09	04	2	2	2	2	2	05	2	2	1	6	8.32
840913	10 441	7	04 07 01	36 519 N	121 489 W	09	04	2	2	2	2	2	05	2	2	1	6	1.94
840913	10 480	7	04 07 01	36 543 N	121 509 W	09	04	2	2	2	2	2	05	2	2	1	6	2.88
840913	12 410	7	04 08 01	36 571 N	121 584 W	09	04	2	2	2	2	4	06	2	2	1	6	6.61
840913	12 500	7	04 09 01	37 013 N	122 132 W	09	04	2	2	2	2	4	06	3	2	1	6	12.54
840913	12 531	7	04 10 01	37 048 N	122 165 W	09	04	2	2	2	2	4	06	2	2	1	6	4.38
840913	13 380	7	04 10 01	37 566 N	122 467 W	09	04	2	2	2	2	4	06	2	2	1	6	57.07
840913	13 480	7	04 11 01	37 592 N	122 576 W	09	04	2	2	2	2	1	07	2	2	1	6	8.97
840913	13 510	7	04 12 01	37 597 N	123 017 W	09	04	2	2	2	2	1	09	2	2	1	6	3.26
840913	14 025	7	04 13 01	38 143 N	122 586 W	09	04	2	2	2	2	1	07	2	2	1	6	14.80
840913	14 121	7	04 13 01	38 198 N	123 045 W	09	04	2	2	2	2	1	07	2	2	1	6	7.19
840913	14 291	7	04 13 01	38 358 N	123 218 W	09	04	2	2	2	2	1	07	2	2	1	6	20.96
840913	14 440	7	04 13 01	38 484 N	123 363 W	09	04	2	2	2	2	1	07	2	2	1	6	16.93
840913	14 541	7	04 14 01	38 598 N	123 421 W	09	04	2	2	2	2	2	08	2	2	1	6	12.26
840913	14 571	7	04 14 01	39 032 N	123 419 W	09	04	2	2	2	2	2	08	2	2	1	6	3.40
840913	14 591	7	04 14 01	39 050 N	123 426 W	09	04	2	2	2	2	2	08	2	2	1	6	1.88
840913	15 070	7	04 14 01	39 137 N	123 468 W	09	04	2	2	2	2	2	08	2	2	1	6	9.28
840913	15 590	7	04 15 01	39 243 N	123 498 W	09	04	2	2	2	2	2	08	2	2	1	6	10.85
840913	16 101	7	04 15 01	39 386 N	123 474 W	09	04	2	2	2	2	2	08	2	2	1	6	14.41

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840913	16 231	7	04 15 01	39 521 N	123 550 W	09	04	2	2	2	2	2	08	2	2	1	6	14.71
840913	16 250	7	04 15 01	39 533 N	123 554 W	09	04	2	2	2	2	2	08	2	2	1	6	1.23
840913	16 311	7	04 16 01	39 597 N	124 019 W	09	04	2	2	2	2	2	10	2	2	1	6	8.11
840913	16 371	7	04 16 01	40 038 N	124 052 W	09	04	2	2	2	2	2	10	2	2	1	6	4.81
840913	16 431	7	04 16 01	40 068 N	124 091 W	09	04	2	2	2	2	2	10	2	2	1	6	5.24
840913	16 461	7	04 16 01	40 083 N	124 120 W	09	04	2	2	2	2	2	10	2	2	1	6	2.67
840913	16 491	7	04 16 01	40 102 N	124 142 W	09	04	2	2	2	2	2	10	2	2	1	6	2.53
840913	16 531	7	04 16 01	40 117 N	124 168 W	09	04	2	2	2	2	2	10	2	2	1	6	2.48
840913	16 551	7	04 16 01	40 126 N	124 182 W	09	04	2	2	2	2	2	10	2	2	1	6	1.39
840913	16 571	7	04 16 01	40 135 N	124 194 W	09	04	2	2	2	2	2	10	2	2	1	6	1.28
840913	17 000	7	04 16 01	40 155 N	124 219 W	09	04	2	2	2	2	2	10	2	2	1	6	2.76
840913	17 011	7	04 17 01	40 168 N	124 219 W	09	04	2	2	2	2	2	09	3	2	1	6	1.29
840913	17 050	7	04 17 01	40 208 N	124 221 W	09	04	2	2	2	2	2	09	3	2	1	6	4.00
840913	17 111	7	04 18 01	40 320 N	124 230 W	09	04	2	2	2	2	3	08	3	2	1	6	1.82
840913	17 171	7	04 18 01	40 367 N	124 205 W	09	04	2	2	2	2	3	08	3	2	1	6	5.06
840913	17 190	7	04 18 01	40 375 N	124 200 W	09	04	2	2	2	2	3	08	3	2	1	6	.88
840913	17 291	7	04 19 01	40 495 N	124 119 W	09	04	2	2	2	2	3	08	2	2	1	6	17.18
840913	17 420	7	04 19 01	41 031 N	124 090 W	09	04	2	2	2	2	3	08	2	2	1	6	13.85
840914	07 461	7	05 01 01	40 518 N	124 106 W	09	04	3	3	3	3	5	13	1	2	4	6	11.36
840914	07 501	7	05 01 01	40 508 N	124 112 W	09	04	3	3	3	3	5	13	1	2	4	6	1.09
840914	07 550	7	05 01 01	40 497 N	124 119 W	09	04	3	3	3	3	5	13	1	2	4	6	1.22
840914	07 581	7	05 02 01	40 459 N	124 142 W	09	04	3	3	3	3	5	13	1	1	4	6	4.17
840914	08 090	7	05 02 01	40 338 N	124 221 W	09	04	3	3	3	3	5	13	1	1	4	6	13.50
840914	08 131	7	05 02 01	40 297 N	124 236 W	09	04	3	3	3	3	5	13	1	1	4	6	4.25
840914	08 171	7	05 02 01	40 276 N	124 243 W	09	04	3	3	3	3	5	13	1	1	4	6	2.16
840914	08 201	7	05 02 01	40 264 N	124 250 W	09	04	3	3	3	3	5	13	1	1	4	6	1.31
840914	08 210	7	05 02 01	40 264 N	124 250 W	09	04	3	3	3	3	5	13	1	1	4	6	.00
840914	08 291	7	05 03 01	40 155 N	124 221 W	09	04	3	3	3	3	5	13	2	2	4	6	11.12
840914	08 321	7	05 03 01	40 123 N	124 179 W	09	04	3	3	3	3	5	13	2	2	4	6	4.53
840914	08 336	7	05 03 01	40 117 N	124 172 W	09	04	3	3	3	3	5	13	2	2	4	6	.80
840914	08 380	7	05 03 01	40 095 N	124 133 W	09	04	3	3	3	3	5	13	2	2	4	6	3.70
840914	08 386	7	05 04 01	40 093 N	124 134 W	09	04	3	3	3	3	5	13	2	2	5	6	.21
840914	08 410	7	05 04 01	40 076 N	124 113 W	09	04	3	3	3	3	5	13	2	2	5	6	2.33
840914	09 100	7	05 05 01	39 294 N	123 487 W	09	04	3	3	3	3	5	13	2	2	5	6	21.38
840914	09 231	7	05 06 01	39 116 N	123 465 W	09	04	3	3	3	3	2	10	2	2	2	6	17.88
840914	09 310	7	05 06 01	39 059 N	123 430 W	09	04	3	3	3	3	2	10	2	2	2	6	6.31
840914	09 341	7	05 07 01	39 033 N	123 421 W	09	04	2	3	2	3	2	10	2	2	1	6	2.69
840914	09 371	7	05 07 01	39 006 N	123 422 W	09	04	2	3	2	3	2	10	2	2	1	6	2.70
840914	09 401	7	05 07 01	38 588 N	123 432 W	09	04	2	3	2	3	2	10	2	2	1	6	1.96
840914	09 426	7	05 07 01	38 585 N	123 433 W	09	04	2	3	2	3	2	10	2	2	1	6	.30
840914	09 460	7	05 07 01	38 573 N	123 447 W	09	04	2	3	2	3	2	10	2	2	1	6	1.62
840914	09 471	7	05 08 01	38 559 N	123 441 W	09	04	2	2	2	2	1	10	2	2	1	6	1.47
840914	09 561	7	05 08 01	38 477 N	123 354 W	09	04	2	2	2	2	1	10	2	2	1	6	10.63
840914	09 571	7	05 08 01	38 469 N	123 338 W	09	04	2	2	2	2	1	10	2	2	1	6	1.48
840914	09 585	7	05 08 01	38 460 N	123 323 W	09	04	2	2	2	2	1	10	2	2	1	6	1.47
840914	10 131	7	05 09 01	38 304 N	123 150 W	09	04	2	2	2	2	1	12	2	2	1	6	20.63

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840914	10 190	7	05 09 01	38 270 N	123 080 W	09	04	2	2	2	2	1	12	2	2	1	6	6.44
840914	11 171	7	05 10 01	38 184 N	123 022 W	09	04	2	2	2	2	1	12	2	2	1	6	10.52
840914	11 240	7	05 10 01	38 143 N	122 584 W	09	04	2	2	2	2	1	12	2	2	1	6	5.07
840914	11 331	7	05 11 01	38 025 N	123 000 W	09	04	2	2	2	2	1	12	2	2	1	6	12.32
840914	11 390	7	05 11 01	37 596 N	122 576 W	09	04	2	2	2	2	1	12	2	2	1	6	3.46
840914	11 411	7	05 12 01	38 013 N	122 547 W	09	04	2	2	2	2	1	12	1	2	1	6	2.84
840914	12 040	7	05 12 01	37 430 N	122 303 W	09	04	2	2	2	2	1	12	1	2	1	6	26.56
840914	12 251	7	05 13 01	37 122 N	122 250 W	09	04	2	2	2	2	4	12	2	1	1	6	24.09
840914	12 325	7	05 13 01	37 066 N	122 198 W	09	04	2	2	2	2	4	12	2	1	1	6	6.96
840914	12 491	7	05 14 01	36 554 N	121 479 W	09	04	2	2	3	3	4	12	2	2	1	6	27.82
840914	12 531	7	05 14 01	36 508 N	121 493 W	09	04	2	2	3	3	4	12	2	2	1	6	4.73
840914	12 546	7	05 14 01	36 504 N	121 490 W	09	04	2	2	3	3	4	12	2	2	1	6	.46
840914	13 000	7	05 14 01	36 450 N	121 486 W	09	04	2	2	3	3	4	12	2	2	1	6	5.40
840914	13 130	7	05 15 01	36 347 N	121 589 W	09	04	2	2	3	3	4	11	3	2	1	6	7.24
840914	13 231	7	05 16 01	36 185 N	121 545 W	09	04	2	2	2	2	4	01	3	1	1	6	8.88
840914	13 270	7	05 16 01	36 163 N	121 514 W	09	04	2	2	2	2	4	01	3	1	1	6	3.32
840914	14 040	7	05 17 01	35 207 N	120 520 W	09	04	2	2	3	3	1	01	3	1	1	6	8.41
840914	14 091	7	05 18 01	35 134 N	120 520 W	09	04	2	2	3	3	1	01	3	2	1	6	7.30
840914	14 191	7	05 18 01	35 040 N	120 385 W	09	04	2	2	3	3	1	01	3	2	1	6	14.49
840914	14 260	7	05 18 01	34 544 N	120 408 W	09	04	2	2	3	3	1	01	3	2	1	6	9.78
840914	14 371	7	05 19 01	34 382 N	120 387 W	09	04	2	2	3	3	1	03	3	2	1	6	16.29
840914	14 420	7	05 19 01	34 340 N	120 385 W	09	04	2	2	3	3	1	03	3	2	1	6	4.20
840914	14 480	7	05 20 01	34 265 N	120 284 W	09	04	2	2	3	3	2	03	5	2	1	6	11.20
840917	07 520	7	06 01 01	34 450 N	120 384 W	04	09	3	3	3	3	3	02	1	2	3	6	20.21
840917	08 126	7	06 02 01	35 094 N	120 451 W	04	09	2	3	3	3	2	02	1	2	3	6	25.01
840917	08 141	7	06 02 01	35 101 N	120 473 W	04	09	2	3	3	3	2	02	1	2	3	6	1.92
840917	08 191	7	06 02 01	35 139 N	120 533 W	04	09	2	3	3	3	2	02	1	2	3	6	6.20
840917	08 310	7	06 02 01	35 274 N	120 599 W	04	09	2	3	3	3	2	02	1	2	3	6	14.53
840917	08 490	7	06 03 01	35 481 N	121 221 W	04	09	2	3	2	3	2	03	1	2	3	6	27.46
840917	09 106	7	06 04 01	36 122 N	121 454 W	04	09	3	3	3	3	2	04	2	2	3	6	30.59
840917	09 240	7	06 04 01	36 293 N	121 571 W	04	09	3	3	3	3	2	04	2	2	3	6	19.52
840917	09 340	7	06 05 01	36 367 N	121 531 W	04	09	3	3	3	3	1	07	1	2	3	6	8.06
840917	10 165	7	06 06 01	36 370 N	121 520 W	04	09	2	2	2	2	1	03	1	2	2	6	.93
840917	10 210	7	06 06 01	36 425 N	121 490 W	04	09	2	2	2	2	1	03	1	2	2	6	4.77
840917	10 241	7	06 07 01	36 478 N	121 484 W	04	09	2	2	2	2	1	03	1	2	2	6	4.51
840917	10 276	7	06 07 01	36 508 N	121 492 W	04	09	2	2	2	2	1	03	1	2	2	6	3.06
840917	10 321	7	06 07 01	36 530 N	121 502 W	04	09	2	2	2	2	1	03	1	2	2	6	2.34
840917	10 380	7	06 07 01	36 567 N	121 591 W	04	09	2	2	2	2	1	03	1	2	2	6	8.02
840917	10 470	7	06 08 01	37 002 N	122 126 W	04	09	2	2	2	2	1	04	1	2	2	6	11.33
840917	11 070	7	06 09 01	37 255 N	122 270 W	04	09	3	3	3	3	1	05	2	2	3	6	27.77
840917	11 131	7	06 10 01	37 335 N	122 316 W	04	09	2	2	2	2	2	04	2	2	1	6	8.79
840917	11 281	7	06 10 01	37 524 N	122 369 W	04	09	2	2	2	2	2	04	2	2	1	6	19.35
840917	11 421	7	06 10 01	38 012 N	122 582 W	04	09	2	2	2	2	2	04	2	2	1	6	18.96
840917	11 450	7	06 10 01	37 593 N	122 574 W	04	09	2	2	2	2	2	04	2	2	1	6	2.00
840917	11 475	7	06 11 01	37 599 N	123 018 W	04	09	2	2	2	2	1	03	2	2	2	6	3.51
840917	11 490	7	06 12 01	37 573 N	123 027 W	04	09	3	3	3	3	4	10	3	2	2	6	2.69

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840917	12 120	7	06 13 01	38 264 N	123 078 W	04	09	3	3	3	3	4	03	2	2	2	6	26.86
840917	13 520	7	06 14 01	38 388 N	123 247 W	04	09	3	3	2	2	4	09	3	2	2	6	18.60
840917	14 060	7	06 15 01	38 543 N	123 433 W	04	09	3	3	2	2	4	09	2	2	2	6	21.22
840917	14 190	7	06 16 01	39 160 N	123 479 W	04	09	2	2	2	2	4	09	2	2	5	6	8.16
840917	14 411	7	06 17 01	39 486 N	123 515 W	04	09	2	2	2	2	1	07	2	2	1	6	22.03
840917	14 501	7	06 17 01	39 577 N	123 599 W	04	09	2	2	2	2	1	07	2	2	1	6	10.97
840917	14 531	7	06 17 01	39 587 N	124 008 W	04	09	2	2	2	2	1	07	2	2	1	6	1.21
840917	14 551	7	06 17 01	39 596 N	124 023 W	04	09	2	2	2	2	1	07	2	2	1	6	1.45
840917	14 581	7	06 17 01	40 004 N	124 034 W	04	09	2	2	2	2	1	07	2	2	1	6	1.16
840917	15 011	7	06 17 01	40 020 N	124 053 W	04	09	2	2	2	2	1	07	2	2	1	6	2.16
840917	15 111	7	06 17 01	40 098 N	124 148 W	04	09	2	2	2	2	1	07	2	2	1	6	10.66
840917	15 140	7	06 17 01	40 113 N	124 172 W	04	09	2	2	2	2	2	09	2	2	1	6	2.36
840917	15 171	7	06 18 01	40 133 N	124 201 W	04	09	2	2	2	2	2	09	2	2	1	6	2.98
840917	15 195	7	06 18 01	40 146 N	124 210 W	04	09	2	2	2	2	2	09	2	2	1	6	1.47
840917	15 241	7	06 19 01	40 212 N	124 225 W	04	09	2	3	2	2	2	09	4	2	1	6	2.98
840917	15 260	7	06 19 01	40 239 N	124 248 W	04	09	2	3	2	2	2	09	4	2	1	6	3.21
840918	08 451	7	07 01 01	40 137 N	124 211 W	04	09	3	3	2	2	2	11	4	1	3	6	13.23
840918	08 491	7	07 01 01	40 125 N	124 185 W	04	09	3	3	2	2	2	11	4	1	3	6	2.31
840918	08 530	7	07 01 01	40 101 N	124 143 W	04	09	3	3	2	2	2	11	4	1	3	6	4.00
840918	08 532	7	07 02 01	40 096 N	124 135 W	04	09	2	2	2	2	2	11	2	2	2	6	.78
840918	08 571	7	07 02 01	40 079 N	124 119 W	04	09	2	2	2	2	2	11	2	2	2	6	2.09
840918	08 591	7	07 02 01	40 075 N	124 110 W	04	09	2	2	2	2	2	11	2	2	2	6	.79
840918	09 061	7	07 02 01	40 009 N	124 028 W	04	09	2	2	2	2	2	11	2	2	2	6	9.10
840918	09 091	7	07 02 01	39 599 N	124 017 W	04	09	2	2	2	2	2	11	2	2	2	6	1.30
840918	09 120	7	07 02 01	39 585 N	124 013 W	04	09	2	2	2	2	2	11	2	2	2	6	1.43
840918	09 141	7	07 02 01	39 560 N	123 578 W	04	09	2	2	2	2	2	11	2	2	2	6	3.66
840918	09 191	7	07 02 01	39 542 N	123 558 W	04	09	2	2	2	2	2	11	2	2	2	6	2.36
840918	09 201	7	07 02 01	39 530 N	123 553 W	04	09	2	2	2	2	2	11	2	2	2	6	1.25
840918	09 231	7	07 02 01	39 518 N	123 548 W	04	09	2	2	2	2	2	11	2	2	2	6	1.25
840918	09 251	7	07 02 01	39 505 N	123 539 W	04	09	2	2	2	2	2	11	2	2	2	6	1.47
840918	09 291	7	07 02 01	39 498 N	123 513 W	04	09	2	2	2	2	2	11	2	2	2	6	2.11
840918	09 316	7	07 02 01	39 492 N	123 512 W	04	09	2	2	2	2	2	11	2	2	2	6	.60
840918	09 340	7	07 02 01	39 471 N	123 507 W	04	09	2	2	2	2	2	11	2	2	2	6	2.13
840918	09 451	7	07 03 01	39 318 N	123 471 W	04	09	3	3	3	3	1	11	2	2	3	6	15.54
840918	09 471	7	07 03 01	39 305 N	123 478 W	04	09	3	3	3	3	1	11	2	2	3	6	1.40
840918	10 101	7	07 03 01	39 000 N	123 426 W	04	09	3	3	3	3	1	11	2	2	3	6	30.76
840918	10 121	7	07 03 01	38 578 N	123 431 W	04	09	3	3	3	3	1	11	2	2	3	6	2.23
840918	10 170	7	07 03 01	38 545 N	123 428 W	04	09	3	3	3	3	1	11	2	2	3	6	3.30
840918	10 201	7	07 04 01	38 516 N	123 395 W	04	09	2	2	2	2	1	12	4	2	2	6	3.87
840918	10 310	7	07 04 01	38 407 N	123 265 W	04	09	2	2	2	2	1	12	4	2	2	6	14.88
840918	10 390	7	07 05 01	38 305 N	123 153 W	04	09	3	3	3	3	1	12	2	2	2	6	13.44
840918	10 411	7	07 06 01	38 285 N	123 106 W	04	09	2	2	2	2	1	12	1	2	2	6	4.18
840918	10 460	7	07 06 01	38 263 N	123 078 W	04	09	2	2	2	2	1	12	1	2	2	6	3.10
840918	11 371	7	07 07 01	38 203 N	123 044 W	04	09	2	2	2	2	1	12	1	2	1	6	6.56
840918	11 461	7	07 07 01	38 156 N	122 589 W	04	09	2	2	2	2	1	12	1	2	1	6	6.38
840918	11 480	7	07 07 01	38 147 N	122 598 W	04	09	2	2	2	2	1	12	1	2	1	6	1.14

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
840918	11 571	7	07 08 01	38 040 N	122 593 W	04	09	3	3	3	3	1	12	3	2	1	6	10.70
840918	12 010	7	07 08 01	37 597 N	123 018 W	04	09	3	3	3	3	1	12	3	2	1	6	4.72
840918	12 110	7	07 09 01	37 465 N	123 067 W	04	09	2	2	3	3	4	12	2	2	1	6	13.75
840918	12 150	7	07 09 02	37 414 N	123 000 W	04	09	3	3	3	3	4	12	2	2	1	6	7.35
840918	12 260	7	07 10 01	37 597 N	123 018 W	04	09	2	2	2	2	4	12	2	2	1	6	18.35
840918	12 291	7	07 11 01	38 014 N	122 570 W	04	09	2	2	2	2	1	03	2	2	1	6	4.14
840918	12 320	7	07 11 01	38 015 N	122 561 W	04	09	2	2	2	2	1	03	2	2	1	6	.71
840918	12 350	7	07 11 01	38 015 N	122 561 W	04	09	2	2	2	2	1	03	2	2	1	6	.00
840918	12 570	7	07 12 01	37 408 N	122 302 W	04	09	2	2	2	2	1	02	1	2	1	6	29.09
840918	13 010	7	07 13 01	37 357 N	122 316 W	04	09	2	2	2	2	4	12	2	2	1	6	5.21
840918	13 131	7	07 14 01	37 220 N	122 247 W	04	09	2	3	2	3	4	12	1	2	3	6	8.72
840918	13 261	7	07 14 02	37 065 N	122 200 W	04	09	2	2	2	1	4	12	2	2	3	6	.18
840918	13 470	7	07 14 02	36 533 N	121 505 W	04	09	2	2	2	1	4	12	2	2	3	6	27.00
840918	15 011	7	07 15 01	36 484 N	121 475 W	04	09	3	3	3	3	2	02	2	2	3	6	7.15
840918	15 030	7	07 15 01	36 467 N	121 485 W	04	09	3	3	3	3	2	02	2	2	3	6	1.87
840918	15 060	7	07 16 01	36 435 N	121 490 W	04	09	2	2	2	2	2	02	2	2	3	6	3.22
840918	15 110	7	07 17 01	36 368 N	121 531 W	04	09	2	2	2	2	2	02	2	2	3	6	7.46
840918	15 230	7	07 18 01	36 269 N	121 560 W	04	09	2	2	2	2	2	11	2	2	2	6	10.17
840918	16 030	7	07 19 01	35 378 N	121 116 W	04	09	2	2	3	3	1	02	2	2	1	6	60.82
840918	16 260	7	07 20 01	35 112 N	120 493 W	04	09	2	2	3	3	2	03	2	2	1	6	32.21
840918	16 530	7	07 21 01	34 345 N	120 391 W	04	09	2	2	2	2	2	03	2	2	1	6	35.07
840918	17 000	7	07 22 01	34 268 N	120 283 W	04	09	2	2	2	2	2	04	4	2	1	6	11.89
841220	11 490	1	33 01 01	33 379 N	118 368 W	30	29	1	2	2	3	1	05	2	2	1	1	13.19
841220	12 000	1	33 02 01	33 261 N	118 447 W	30	29	2	3	2	2	1	10	2	2	1	1	13.88
841220	12 097	1	33 03 01	33 336 N	118 319 W	30	29	1	2	2	3	1	05	2	2	1	1	12.51
841220	12 106	1	33 03 02	33 346 N	118 307 W	30	29	1	2	2	2	1	05	2	2	1	1	1.41
841220	12 166	1	33 04 01	33 289 N	118 343 W	30	29	2	3	2	2	1	10	2	2	1	1	6.67
841220	12 226	1	33 05 01	33 340 N	118 260 W	30	29	1	2	2	2	1	05	2	2	1	1	7.49
841220	12 286	1	33 06 01	33 277 N	118 305 W	30	29	3	3	2	2	1	11	2	2	1	1	6.97
841220	12 340	1	33 07 01	33 325 N	118 230 W	30	29	1	2	1	2	1	05	2	2	1	1	7.63
841220	12 396	1	33 08 01	33 264 N	118 270 W	30	29	2	3	2	2	1	11	2	2	1	1	6.78
841220	12 450	1	33 09 01	33 312 N	118 194 W	30	29	1	2	1	2	1	05	2	2	1	1	7.43
841220	12 512	1	33 10 01	33 253 N	118 230 W	30	29	2	3	2	2	1	11	2	2	1	1	6.69
841220	12 563	1	33 11 01	33 297 N	118 157 W	30	29	1	2	1	2	1	05	2	2	1	1	7.33
841220	13 021	1	33 12 01	33 231 N	118 210 W	30	29	2	3	2	2	1	11	2	2	1	1	6.78
841220	13 073	1	33 13 01	33 274 N	118 140 W	30	29	2	2	2	2	1	05	2	2	1	1	7.47
841220	13 127	1	33 14 01	33 209 N	118 187 W	30	29	2	3	2	2	1	11	2	2	1	1	6.51
841220	13 181	1	33 15 01	33 246 N	118 122 W	30	29	2	2	2	2	1	05	2	2	1	1	6.85
841220	13 226	1	33 16 01	33 201 N	118 151 W	30	29	2	3	2	2	1	11	2	2	1	1	4.37
841220	13 255	1	33 16 02	33 164 N	118 189 W	30	29	3	3	3	3	1	11	2	2	3	1	4.87
841220	13 285	1	33 16 03	33 127 N	118 228 W	30	29	2	3	3	3	1	11	3	2	3	1	4.93
841220	13 343	1	33 17 01	33 152 N	118 153 W	30	29	2	2	2	3	2	06	3	2	3	1	6.18
841220	13 387	1	33 17 02	33 209 N	118 093 W	30	29	2	3	3	3	2	06	2	2	3	1	7.59
841220	13 391	1	33 17 03	33 215 N	118 086 W	30	29	2	3	2	2	2	06	2	2	3	1	.83
841220	13 433	1	33 18 01	33 172 N	118 084 W	30	29	2	3	2	2	2	12	2	2	3	1	2.38
841220	13 458	1	33 18 02	33 140 N	118 118 W	30	29	3	3	2	2	2	12	2	2	3	1	4.28

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
841220	13 468	1	33 18 03	33 129 N 118 130 W	30 29	3 3	3 3	2 12	2	2	3	1	1.48
841220	13 503	1	33 18 04	33 085 N 118 176 W	30 29	2 3	3 3	2 12	2	2	3	1	5.84
841220	13 596	1	33 19 01	33 127 N 118 230 W	30 29	2 3	3 3	2 12	3	2	3	1	6.83
841220	14 047	1	33 20 01	33 177 N 118 200 W	30 29	1 2	2 3	2 06	3	2	3	1	6.24
841220	14 096	1	33 21 01	33 136 N 118 270 W	30 29	2 3	2 2	2 12	3	2	3	1	6.98
841220	14 144	1	33 22 01	33 190 N 118 236 W	30 29	1 2	2 2	2 06	3	2	1	1	6.08
841220	14 200	1	33 23 01	33 137 N 118 318 W	30 29	2 2	2 2	2 12	2	2	1	1	7.60
841220	14 252	1	33 24 01	33 193 N 118 278 W	30 29	1 2	2 2	2 06	2	2	1	1	6.55
841220	14 304	1	33 25 01	33 156 N 118 347 W	30 29	2 3	2 3	2 12	2	2	1	1	6.99
841220	14 362	1	33 26 01	33 231 N 118 287 W	30 29	2 2	2 2	2 06	2	2	1	1	7.03
841220	14 418	1	33 27 01	33 195 N 118 353 W	30 29	2 3	2 2	2 12	2	2	1	1	7.36
841220	14 467	1	33 28 01	33 252 N 118 309 W	30 29	2 2	2 2	2 06	2	2	1	1	6.70
841220	14 524	1	33 29 01	33 205 N 118 387 W	30 29	2 2	2 2	2 12	2	2	1	1	7.39
841220	14 577	1	33 30 01	33 264 N 118 345 W	30 29	2 3	2 3	2 06	2	2	1	1	6.30
841220	15 027	1	33 31 01	33 228 N 118 414 W	30 29	2 2	2 2	2 12	2	2	1	1	6.93
841220	15 146	1	33 32 01	33 343 N 118 312 W	30 29	2 3	2 2	2 06	2	2	1	1	13.40
841221	10 095	1	34 01 01	33 384 N 118 360 W	29 30	2 3	2 3	2 04	1	1	1	1	13.76
841221	10 210	1	34 02 01	33 260 N 118 445 W	29 30	3 3	2 2	2 10	1	1	1	1	13.99
841221	10 316	1	34 03 01	33 345 N 118 307 W	29 30	2 3	3 3	2 04	1	1	1	1	13.94
841221	10 375	1	34 04 01	33 288 N 118 343 W	29 30	2 3	1 2	2 10	1	1	1	1	6.72
841221	10 434	1	34 05 01	33 340 N 118 263 W	29 30	2 3	2 3	2 04	1	1	1	1	7.32
841221	10 493	1	34 06 01	33 278 N 118 307 W	29 30	3 3	1 2	2 10	1	1	1	1	6.84
841221	10 553	1	34 07 01	33 323 N 118 231 W	29 30	2 3	2 3	2 04	1	1	1	1	7.49
841221	11 009	1	34 08 01	33 265 N 118 272 W	29 30	3 3	1 2	1 10	1	1	1	1	6.75
841221	11 065	1	34 09 01	33 311 N 118 192 W	29 30	2 3	2 2	1 04	1	1	1	1	7.53
841221	11 122	1	34 10 01	33 254 N 118 232 W	29 30	3 3	1 2	1 10	1	1	1	1	6.73
841221	11 178	1	34 11 01	33 298 N 118 159 W	29 30	2 3	2 3	1 04	1	1	1	1	7.29
841221	11 244	1	34 12 01	33 231 N 118 212 W	29 30	3 3	1 2	1 10	1	1	1	1	6.78
841221	11 299	1	34 13 01	33 273 N 118 141 W	29 30	2 3	2 3	1 04	1	1	1	1	7.19
841221	11 344	1	34 14 01	33 228 N 118 167 W	29 30	2 3	1 2	1 11	1	1	1	1	4.55
841221	11 378	1	34 14 01	33 212 N 118 188 W	29 30	2 3	1 2	1 11	1	1	1	1	2.25
841221	11 410	1	34 15 01	33 216 N 118 152 W	29 30	2 3	2 3	1 05	1	1	1	1	2.99
841221	11 452	1	34 15 01	33 248 N 118 122 W	29 30	2 3	2 3	1 05	1	1	1	1	3.88
841221	11 500	1	34 16 01	33 192 N 118 164 W	29 30	2 2	1 1	1 10	1	1	1	1	5.71
841221	11 550	1	34 16 02	33 126 N 118 227 W	29 30	2 3	1 2	1 10	1	2	1	1	8.44
841221	11 578	1	34 17 01	33 120 N 118 193 W	29 30	2 3	2 2	1 05	1	2	1	1	1.63
841221	12 072	1	34 17 01	33 213 N 118 088 W	29 30	2 3	2 2	1 05	1	2	1	1	12.69
841221	12 183	1	34 18 01	33 086 N 118 177 W	29 30	2 3	1 2	1 11	1	2	1	1	13.90
841221	12 255	1	34 19 01	33 160 N 118 195 W	29 30	3 2	1 2	1 11	1	2	1	1	2.84
841221	12 283	1	34 19 02	33 127 N 118 231 W	29 30	2 2	1 2	1 11	1	2	1	1	4.46
841221	12 313	1	34 20 01	33 140 N 118 243 W	29 30	2 2	1 2	1 05	1	2	1	1	1.34
841221	12 360	1	34 20 01	33 179 N 118 199 W	29 30	2 2	1 2	1 05	1	2	1	1	5.20
841221	12 413	1	34 21 01	33 139 N 118 270 W	29 30	2 2	1 2	1 12	1	2	1	1	6.96
841221	12 465	1	34 22 01	33 191 N 118 237 W	29 30	2 2	1 2	1 06	1	2	1	1	6.21
841221	12 532	1	34 23 01	33 141 N 118 316 W	29 30	2 3	2 2	1 12	1	2	1	1	7.13
841221	12 589	1	34 24 01	33 195 N 118 279 W	29 30	2 2	1 2	1 06	1	2	1	1	6.50

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
841221	13 045	1	34 25 01	33 190 N	118 310 W	29	30	2	3	1	2	1	11	1	2	1	1	2.44
841221	13 101	1	34 25 01	33 155 N	118 346 W	29	30	2	3	1	2	1	11	1	2	1	1	4.32
841221	13 160	1	34 26 01	33 231 N	118 288 W	29	30	2	2	1	2	1	06	1	2	1	1	7.06
841221	13 214	1	34 27 01	33 196 N	118 352 W	29	30	2	2	1	2	2	12	1	2	1	1	7.10
841221	13 264	1	34 28 01	33 254 N	118 311 W	29	30	1	2	1	2	2	06	1	2	1	1	6.73
841221	13 316	1	34 29 01	33 207 N	118 387 W	29	30	2	2	1	2	2	12	1	2	1	1	7.40
841221	13 364	1	34 30 01	33 264 N	118 346 W	29	30	1	2	1	2	2	06	1	2	1	1	6.57
841221	13 413	1	34 31 01	33 233 N	118 411 W	29	30	2	2	1	2	2	12	1	2	1	1	6.31
841221	13 436	1	34 31 01	33 226 N	118 413 W	29	30	2	2	1	2	2	12	1	2	1	1	.70
841221	13 553	5	34 01 01	33 266 N	119 083 W	29	30	3	3	1	2	2	09	1	2	1	1	14.56
841221	14 009	5	34 02 01	33 345 N	119 000 W	29	30	1	2	1	2	2	06	1	2	1	1	9.77
841221	14 063	5	34 03 01	33 252 N	118 554 W	29	30	2	2	3	3	2	02	1	2	1	1	9.31
841221	14 115	5	34 04 01	33 280 N	119 051 W	29	30	3	3	1	2	2	10	1	2	1	1	3.77
841221	14 171	5	34 05 01	33 317 N	119 013 W	29	30	1	2	1	2	2	06	1	2	1	1	3.84
841221	14 202	5	34 06 01	33 266 N	118 594 W	29	30	2	2	3	3	2	02	1	2	1	1	4.85
850114	10 226	1	35 01 01	33 388 N	118 354 W	29	30	2	2	3	3	2	03	2	2	1	1	14.49
850114	10 338	1	35 02 01	33 275 N	118 469 W	29	30	3	3	1	2	2	10	2	2	1	1	14.53
850114	10 452	1	35 03 01	33 341 N	118 300 W	29	30	1	2	3	3	2	03	2	2	1	1	15.16
850114	10 506	1	35 04 01	33 287 N	118 340 W	10	29	3	3	1	2	2	10	2	2	1	1	6.35
850114	10 560	1	35 05 01	33 330 N	118 260 W	29	30	1	2	2	3	2	04	2	1	1	1	6.72
850114	11 018	1	35 06 01	33 277 N	118 305 W	29	30	2	3	1	2	1	10	2	1	1	1	6.27
850114	11 072	1	35 07 01	33 315 N	118 226 W	29	30	1	2	2	3	1	04	1	1	1	1	7.11
850114	11 126	1	35 08 01	33 264 N	118 271 W	29	30	3	3	2	2	1	10	1	1	1	1	6.28
850114	11 151	1	35 09 01	33 270 N	118 234 W	29	30	1	2	2	3	1	04	1	1	1	4	2.05
850114	11 186	1	35 09 02	33 310 N	118 191 W	29	30	1	2	2	3	1	04	1	1	1	1	5.37
850114	11 244	1	35 10 01	33 253 N	118 233 W	29	30	3	3	2	2	1	10	1	1	1	1	6.90
850114	11 301	1	35 11 01	33 298 N	118 159 W	29	30	2	2	2	3	1	01	2	1	1	1	7.25
850114	11 364	1	35 12 01	33 233 N	118 212 W	29	30	3	3	2	2	1	10	2	1	1	1	6.67
850114	11 419	1	35 13 01	33 271 N	118 140 W	29	30	2	3	2	3	1	04	2	2	1	1	7.17
850114	11 478	1	35 14 01	33 209 N	118 188 W	29	30	2	3	2	2	1	10	2	2	1	1	6.74
850114	11 513	1	35 15 01	33 218 N	118 145 W	29	30	3	3	3	3	1	04	3	2	1	1	3.68
850114	11 535	1	35 15 02	33 246 N	118 119 W	29	30	2	2	2	3	1	04	2	2	1	1	3.54
850114	11 582	1	35 16 01	33 200 N	118 154 W	29	30	3	3	1	2	1	10	1	2	1	1	4.61
850114	12 001	1	35 16 02	33 180 N	118 177 W	29	30	3	3	2	2	1	10	3	2	1	1	2.77
850114	12 045	1	35 16 03	33 126 N	118 230 W	29	30	3	2	1	2	1	10	1	2	1	1	6.98
850114	12 123	1	35 17 01	33 173 N	118 130 W	29	30	1	2	2	3	1	04	1	2	1	1	9.51
850114	12 155	1	35 17 02	33 212 N	118 088 W	29	30	2	3	2	3	1	04	2	2	1	1	5.24
850114	12 220	1	35 18 01	33 160 N	118 097 W	29	30	3	3	2	2	1	11	1	2	1	1	3.96
850114	12 282	1	35 18 02	33 083 N	118 176 W	29	30	3	3	2	2	1	11	2	2	1	1	10.14
850114	12 402	1	35 19 01	33 126 N	118 231 W	29	30	3	3	2	2	1	11	1	2	1	1	7.64
850114	12 464	1	35 20 01	33 179 N	118 199 W	29	30	2	2	2	2	1	05	1	2	1	1	7.01
850114	12 520	1	35 21 01	33 137 N	118 270 W	29	30	3	3	1	2	1	11	2	2	1	1	7.07
850114	12 550	1	35 22 01	33 159 N	118 271 W	29	30	2	2	2	3	1	05	2	2	1	1	1.87
850114	12 574	1	35 22 02	33 191 N	118 237 W	29	30	2	2	2	2	1	05	2	2	1	1	4.27
850114	13 043	1	35 23 01	33 140 N	118 317 W	29	30	3	3	2	2	1	11	2	2	1	1	7.52
850114	13 103	1	35 24 01	33 194 N	118 281 W	29	30	2	2	2	2	1	05	2	2	1	1	6.34

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver.	Sun Position Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850114	13 161	1	35 25 01	33 157 N 118 346 W	29 30	3 3	2 2	1	11	2	2	1	1	6.94
850114	13 238	1	35 26 01	33 208 N 118 310 W	29 30	2 2	2 2	1	05	2	2	1	1	4.13
850114	13 254	1	35 26 02	33 231 N 118 288 W	29 30	2 2	2 2	1	05	1	2	1	1	2.94
850114	13 293	1	35 27 01	33 229 N 118 314 W	29 30	2 3	2 2	2	12	1	2	1	1	2.52
850114	13 332	1	35 27 01	33 198 N 118 351 W	29 30	2 3	2 2	2	12	1	2	1	1	4.07
850114	13 395	1	35 28 01	33 255 N 118 310 W	29 30	2 2	1 2	2	06	1	2	1	1	6.62
850114	13 437	1	35 29 01	33 228 N 118 363 W	29 30	2 2	1 2	2	12	1	2	1	1	4.37
850114	13 478	1	35 29 01	33 207 N 118 386 W	29 30	2 2	1 2	2	12	1	2	1	1	3.02
850114	13 532	1	35 30 01	33 267 N 118 345 W	29 30	1 2	1 2	2	06	1	2	1	1	6.58
850114	13 588	1	35 31 01	33 228 N 118 416 W	29 30	2 2	1 2	2	12	1	2	1	1	7.00
850114	14 083	1	35 32 01	33 344 N 118 311 W	29 30	1 2	1 2	2	12	1	2	1	1	13.64
850114	14 099	1	35 32 01	33 349 N 118 306 W	29 30	1 2	1 2	2	12	1	2	1	1	.46
850115	10 270	1	36 01 01	33 372 N 118 374 W	29 10	2 3	2 3	2	04	1	1	1	1	8.97
850115	10 287	1	36 01 02	33 385 N 118 360 W	29 10	2 3	3 3	2	04	1	1	1	1	1.74
850115	10 383	1	36 02 01	33 287 N 118 417 W	29 10	3 3	2 3	2	10	1	1	1	2	10.38
850115	10 438	1	36 03 01	33 273 N 118 385 W	29 10	3 3	3 3	2	04	2	1	1	2	3.57
850115	10 496	1	36 03 02	33 346 N 118 310 W	29 10	2 3	2 3	2	04	2	1	1	2	9.61
850115	10 545	1	36 04 01	33 313 N 118 317 W	29 10	3 3	2 3	2	10	1	1	1	2	3.40
850115	10 564	1	36 04 02	33 288 N 118 345 W	29 10	3 3	1 3	2	10	1	1	1	2	3.42
850115	11 024	1	36 05 01	33 340 N 118 262 W	29 10	2 3	3 3	2	04	1	1	1	2	7.54
850115	11 086	1	36 06 01	33 277 N 118 306 W	29 10	3 3	2 3	2	10	1	1	1	2	6.89
850115	11 118	1	36 07 01	33 296 N 118 263 W	29 10	2 3	2 3	2	04	1	1	1	1	3.77
850115	11 141	1	36 07 02	33 323 N 118 231 W	29 10	3 3	3 3	2	04	1	1	1	2	3.79
850115	11 190	1	36 08 01	33 274 N 118 257 W	29 10	3 3	2 3	2	10	1	1	1	2	5.39
850115	11 203	1	36 08 02	33 265 N 118 271 W	29 30	3 3	1 2	2	10	1	1	1	2	1.47
850115	11 261	1	36 09 01	33 312 N 118 193 W	29 10	2 3	3 3	2	04	1	1	1	2	7.49
850115	11 319	1	36 10 01	33 254 N 118 232 W	29 10	3 3	2 3	2	10	1	1	1	2	6.69
850115	11 376	1	36 11 01	33 297 N 118 157 W	29 10	2 2	3 3	2	04	1	1	1	2	7.27
850115	11 436	1	36 12 01	33 232 N 118 212 W	29 10	3 3	2 3	2	10	1	1	1	2	6.69
850115	11 462	1	36 13 01	33 237 N 118 176 W	29 10	2 3	2 3	2	04	1	1	1	2	2.64
850115	11 493	1	36 13 02	33 273 N 118 138 W	29 10	2 3	3 3	2	04	1	1	1	2	4.79
850115	11 553	1	36 14 01	33 210 N 118 188 W	29 10	3 3	2 3	2	10	1	1	1	2	6.88
850115	12 009	1	36 15 01	33 247 N 118 120 W	29 10	3 3	3 3	2	04	2	1	1	2	7.10
850115	12 072	1	36 16 01	33 186 N 118 167 W	29 10	3 3	2 3	2	11	2	1	1	2	6.32
850115	12 090	1	36 16 02	33 167 N 118 183 W	29 10	3 3	2 3	2	11	3	1	1	2	2.32
850115	12 121	1	36 16 03	33 125 N 118 226 W	29 10	3 3	2 3	2	11	2	1	1	2	5.52
850115	12 223	1	36 17 01	33 210 N 118 086 W	29 10	3 3	3 3	2	05	2	1	1	2	13.87
850115	12 347	1	36 18 01	33 085 N 118 177 W	29 10	3 3	2 3	2	11	2	1	1	2	14.07
850115	12 426	1	36 19 01	33 161 N 118 192 W	29 10	3 3	2 3	2	11	3	1	1	2	2.81
850115	13 102	3	36 01 01	33 472 N 118 362 W	29 10	3 3	3 3	2	11	2	1	1	2	7.01
850115	13 160	3	36 02 01	33 517 N 118 285 W	29 10	3 3	3 3	2	05	2	1	1	2	6.92
850115	13 221	3	36 03 01	33 461 N 118 318 W	29 10	3 3	2 3	2	11	2	1	1	2	6.97
850115	13 274	3	36 04 01	33 504 N 118 249 W	29 10	2 3	3 3	2	06	1	1	1	2	7.44
850115	13 349	3	36 05 01	33 420 N 118 310 W	29 10	3 3	2 3	2	12	2	1	1	2	8.99
850115	13 383	3	36 06 01	33 428 N 118 279 W	29 10	2 3	2 3	2	06	2	1	1	2	3.22
850115	13 403	3	36 06 02	33 453 N 118 251 W	29 10	3 3	3 3	2	06	1	1	1	2	3.41

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850115	13 460	3	36 07 01	33 388 N	118 293 W	29	10	2	3	2	3	2	12	1	1	1	2	6.90
850115	13 500	3	36 08 01	33 414 N	118 241 W	29	10	2	3	3	3	2	06	1	1	1	2	.60
850115	13 517	3	36 08 01	33 418 N	118 238 W	29	10	2	3	3	3	2	06	1	1	1	2	.52
850115	13 556	3	36 08 01	33 439 N	118 212 W	29	10	2	3	3	3	2	06	1	1	1	2	2.11
850115	13 581	3	36 09 01	33 412 N	118 219 W	29	10	3	3	2	3	2	12	1	1	1	2	2.45
850115	14 011	3	36 10 01	33 422 N	118 179 W	29	10	3	3	2	3	2	06	1	1	1	2	2.68
850115	14 045	3	36 11 01	33 399 N	118 185 W	29	10	3	3	2	3	2	12	2	1	1	2	3.02
850115	14 088	3	36 12 01	33 429 N	118 130 W	29	10	2	3	2	3	2	06	2	1	1	2	5.46
850115	14 132	3	36 13 01	33 394 N	118 146 W	29	10	3	3	2	3	2	12	2	1	1	2	4.51
850115	14 173	3	36 13 01	33 386 N	118 156 W	29	10	3	3	2	3	2	12	2	1	1	2	1.43
850115	14 187	3	36 14 01	33 379 N	118 136 W	29	10	2	3	2	3	2	06	2	1	1	2	.31
850115	14 237	3	36 14 01	33 432 N	118 082 W	29	10	2	3	2	3	2	06	2	1	1	2	6.63
850115	14 296	3	36 15 01	33 380 N	118 123 W	29	10	3	3	2	3	2	12	2	1	1	2	6.66
850115	14 358	3	36 16 01	33 426 N	118 048 W	29	10	2	3	2	3	2	06	1	1	1	2	7.99
850116	10 355	6	37 01 01	34 208 N	119 554 W	30	29	2	3	2	3	2	10	2	1	1	1	5.23
850116	10 368	6	37 01 02	34 193 N	119 574 W	30	29	3	3	2	3	2	10	2	1	1	1	2.23
850116	10 449	6	37 02 01	34 252 N	119 473 W	30	29	2	2	3	3	2	03	2	1	1	1	10.02
850116	10 499	6	37 03 01	34 200 N	119 525 W	30	29	3	3	2	2	2	10	2	1	1	1	6.81
850116	10 565	6	37 04 01	34 241 N	119 444 W	30	29	2	2	3	3	2	03	2	1	1	1	7.77
850116	11 008	6	37 05 01	34 199 N	119 468 W	30	29	2	3	2	2	2	10	2	1	1	1	4.85
850116	11 021	6	37 05 02	34 185 N	119 488 W	30	29	3	3	2	3	2	10	2	1	1	1	2.16
850116	11 088	6	37 06 01	34 226 N	119 405 W	30	29	2	2	3	3	2	03	2	1	1	1	8.11
850116	11 107	6	37 06 02	34 250 N	119 382 W	30	29	2	2	2	3	2	03	2	1	1	1	3.05
850116	11 156	6	37 07 01	34 206 N	119 424 W	30	29	2	3	2	2	2	10	1	1	1	1	6.36
850116	11 161	6	37 07 02	34 201 N	119 431 W	30	29	3	3	2	3	2	10	2	1	1	1	.76
850116	11 195	6	37 08 01	34 210 N	119 388 W	30	29	2	2	3	3	2	04	2	1	1	1	3.00
850116	11 231	6	37 08 02	34 247 N	119 336 W	30	29	2	2	2	3	2	04	1	1	1	1	5.66
850116	11 287	6	37 09 01	34 191 N	119 376 W	30	29	2	3	2	2	2	10	1	1	1	1	6.68
850116	11 348	6	37 10 01	34 230 N	119 295 W	30	29	1	2	2	3	2	04	1	1	1	1	7.33
850116	11 402	6	37 11 01	34 178 N	119 327 W	30	29	2	3	2	2	1	10	1	1	1	1	6.32
850116	11 455	6	37 12 01	34 209 N	119 258 W	30	29	1	2	2	3	1	04	1	1	1	1	6.38
850116	11 515	6	37 13 01	34 155 N	119 305 W	30	29	2	3	2	2	1	10	1	1	1	1	6.94
850116	11 571	6	37 14 01	34 189 N	119 230 W	30	29	1	2	2	3	1	04	1	1	1	1	6.89
850116	12 010	6	37 15 01	34 148 N	119 258 W	30	29	2	3	1	2	1	10	1	1	1	1	5.09
850116	12 029	6	37 15 02	34 139 N	119 269 W	30	29	2	3	2	3	1	10	1	1	1	1	1.27
850116	12 083	6	37 16 01	34 169 N	119 192 W	30	29	2	2	3	3	1	04	2	1	1	1	6.69
850116	12 129	6	37 17 01	34 129 N	119 222 W	30	29	3	3	2	2	1	10	2	1	1	1	4.97
850116	12 143	6	37 17 02	34 113 N	119 241 W	30	29	3	3	2	3	1	10	3	1	1	1	2.24
850116	12 183	6	37 18 01	34 133 N	119 187 W	30	29	2	2	3	3	1	04	3	1	1	1	4.35
850116	12 196	6	37 18 02	34 148 N	119 165 W	30	29	2	2	3	3	1	04	2	1	1	1	2.35
850116	12 238	6	37 19 01	34 101 N	119 194 W	30	29	3	3	2	2	1	10	3	1	1	1	4.40
850116	12 247	6	37 19 02	34 088 N	119 207 W	30	29	3	3	3	3	1	10	4	1	1	1	1.68
850116	12 297	6	37 20 01	34 117 N	119 148 W	30	29	2	2	3	3	1	04	4	1	1	1	5.50
850116	13 302	2	38 01 01	34 039 N	119 003 W	30	29	2	2	3	3	1	05	2	1	1	1	7.25
850116	13 358	2	38 02 01	33 575 N	119 047 W	30	29	3	3	2	2	1	12	2	1	1	1	7.08
850116	13 421	2	38 03 01	34 024 N	118 567 W	30	29	1	2	2	3	1	05	2	1	1	1	6.69

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850116	13 477	2	38 04 01	33 569 N	119 006 W	30	29	3	3	2	2	1	11	2	1	1	1	6.52
850116	13 544	2	38 05 01	34 020 N	118 524 W	30	29	1	2	2	2	1	05	2	1	1	1	7.13
850116	13 582	2	38 06 01	33 585 N	118 537 W	30	29	2	2	1	2	2	12	2	1	1	1	4.00
850116	14 002	2	38 06 02	33 562 N	118 564 W	30	29	3	3	2	2	2	12	2	1	1	1	3.21
850116	14 062	2	38 07 01	34 003 N	118 487 W	30	29	1	2	2	2	2	06	2	1	1	1	7.15
850116	14 130	2	38 08 01	33 549 N	118 526 W	30	29	2	2	2	2	2	12	2	1	1	1	7.70
850116	14 205	2	38 09 01	34 008 N	118 430 W	30	29	1	2	2	2	2	06	1	1	1	1	7.64
850116	14 271	2	38 10 01	33 548 N	118 473 W	30	29	2	2	2	2	2	12	1	1	1	1	7.73
850116	14 341	2	38 11 01	34 004 N	118 380 W	30	29	1	2	1	2	2	06	1	1	1	1	7.37
850116	14 562	3	38 03 01	33 463 N	118 319 W	30	29	2	2	2	2	2	12	2	1	1	2	7.08
850116	15 003	3	38 04 01	33 481 N	118 272 W	30	29	2	2	2	3	2	06	1	1	1	2	4.32
850116	15 020	3	38 04 02	33 502 N	118 247 W	30	29	1	1	2	2	2	06	1	1	1	2	2.95
850116	15 086	3	38 05 01	33 432 N	118 310 W	30	29	2	2	2	3	2	12	1	1	1	2	7.43
850116	15 129	3	38 06 01	33 460 N	118 258 W	30	29	2	2	2	2	2	06	1	1	1	2	5.05
850116	15 185	3	38 07 01	33 403 N	118 311 W	30	29	2	2	2	3	2	12	1	1	1	2	6.97
850116	15 241	3	38 08 01	33 440 N	118 238 W	30	29	2	2	2	2	2	06	1	1	1	2	6.74
850116	15 299	3	38 09 01	33 388 N	118 283 W	30	29	2	2	2	3	2	12	1	1	1	2	7.24
850116	15 360	3	38 10 01	33 429 N	118 205 W	30	29	2	3	2	2	2	06	1	1	1	2	7.43
850116	15 415	3	38 11 01	33 379 N	118 253 W	30	29	2	2	2	3	2	12	1	1	1	2	6.90
850116	15 471	3	38 12 01	33 419 N	118 176 W	30	29	2	2	2	3	2	12	2	1	1	2	7.29
850118	10 232	4	39 02 01	33 011 N	118 435 W	29	10	3	3	2	2	2	10	2	1	3	1	11.94
850118	10 244	4	39 02 02	32 597 N	118 450 W	29	10	3	3	2	2	2	10	3	1	3	1	1.88
850118	10 353	4	39 03 01	33 078 N	118 307 W	29	10	2	3	3	3	2	04	2	1	3	1	13.84
850118	10 415	4	39 04 01	33 024 N	118 342 W	29	10	3	3	2	2	2	10	3	1	3	1	6.00
850118	10 495	4	39 05 01	33 067 N	118 273 W	29	10	2	2	3	3	2	04	2	1	3	1	6.83
850118	10 554	4	39 06 01	33 004 N	118 323 W	29	10	3	3	2	2	2	11	3	1	3	1	6.51
850118	11 064	4	39 29 01	32 556 N	118 422 W	29	10	3	3	2	2	2	11	2	1	3	1	7.73
850118	11 155	4	39 28 01	32 597 N	118 354 W	29	10	2	3	3	3	2	05	2	1	3	1	6.61
850118	11 212	4	39 27 01	32 533 N	118 405 W	29	10	3	3	2	2	2	11	2	1	3	1	7.51
850118	11 339	4	39 20 01	32 439 N	118 327 W	29	10	3	3	2	2	2	11	3	1	3	1	6.72
850118	11 410	4	39 19 01	32 476 N	118 253 W	29	10	2	3	2	3	2	04	3	1	3	1	7.12
850118	11 484	4	39 18 01	32 466 N	118 241 W	29	10	3	3	1	2	2	11	3	1	3	1	3.35
850118	11 513	4	39 18 02	32 436 N	118 281 W	29	10	3	3	2	3	2	11	3	1	3	1	4.50
850118	11 568	4	39 16 01	32 446 N	118 213 W	29	10	2	3	2	3	2	05	3	1	1	1	5.56
850118	12 032	4	39 16 02	32 528 N	118 166 W	29	10	2	3	2	2	2	05	3	1	1	1	9.10
850118	12 141	4	39 15 01	32 550 N	118 150 W	29	10	2	2	2	3	2	05	3	1	1	1	7.44
850118	12 200	4	39 14 01	32 507 N	118 221 W	29	10	3	3	2	3	2	11	3	1	1	1	6.92
850118	12 258	4	39 13 01	32 570 N	118 179 W	29	10	2	2	2	3	2	05	3	1	1	1	7.10
850118	12 386	1	39 20 01	33 162 N	118 218 W	29	10	2	3	3	3	2	05	3	1	3	1	4.19
850118	12 397	1	39 20 02	33 178 N	118 200 W	29	10	2	3	2	3	2	05	3	1	1	1	2.19
850118	12 437	1	39 21 01	33 156 N	118 249 W	29	10	3	3	2	3	2	11	3	1	1	1	4.32
850118	12 455	1	39 21 02	33 136 N	118 270 W	29	10	3	3	3	3	2	11	3	1	3	1	2.66
850118	12 503	1	39 22 01	33 174 N	118 252 W	29	10	2	3	3	3	2	05	3	1	3	1	3.99
850118	12 515	1	39 22 02	33 191 N	118 237 W	29	10	2	3	2	3	2	05	3	1	1	1	2.11
850118	12 553	1	39 23 01	33 167 N	118 287 W	29	10	3	3	2	3	2	11	3	1	1	1	3.52
850118	12 576	1	39 23 02	33 143 N	118 316 W	29	30	3	3	3	3	2	11	3	1	3	1	3.41

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850118	13 045	1	39 24 01	33 194 N	118 282 W	29	10	2	3	3	3	2	05	3	1	3	1	6.44
850118	13 191	1	39 25 01	33 156 N	118 346 W	29	10	3	3	2	3	2	11	2	1	2	1	6.70
850118	13 236	1	39 26 01	33 198 N	118 321 W	29	10	2	3	3	3	2	06	3	1	2	1	2.77
850118	13 264	1	39 26 02	33 231 N	118 288 W	29	10	2	3	2	3	2	06	2	1	2	1	4.29
850118	13 292	1	39 27 01	33 233 N	118 312 W	29	10	2	3	2	2	2	12	2	1	2	1	2.24
850118	13 323	1	39 27 02	33 198 N	118 353 W	29	10	3	3	3	3	2	12	2	1	3	1	4.89
850118	13 379	1	39 28 01	33 252 N	118 310 W	29	10	2	3	3	3	2	06	2	1	2	1	6.55
850118	13 439	1	39 29 01	33 207 N	118 380 W	29	10	3	3	2	3	2	12	2	1	2	1	6.82
850118	13 475	1	39 30 01	33 238 N	118 377 W	29	10	2	3	3	3	2	06	2	1	3	1	2.75
850118	13 502	1	39 30 02	33 266 N	118 345 W	29	10	2	3	2	3	2	06	2	1	2	1	3.86
850911	11 055	7	01 01 01	41 576 N	124 129 W	10	32	2	3	3	3	1	04	3	2	3	1	10.78
850911	11 075	7	01 01 02	42 007 N	124 140 W	10	32	3	3	3	3	1	04	3	2	3	1	3.20
850911	11 167	8	01 01 03	42 112 N	124 229 W	10	32	3	3	3	3	1	04	2	2	3	1	12.40
850911	11 259	8	01 01 04	42 250 N	124 260 W	10	32	3	3	3	3	1	04	3	2	3	1	13.98
850911	11 480	8	01 02 01	42 319 N	124 245 W	10	32	3	3	3	3	5	13	3	2	4	1	6.98
850911	11 503	8	01 02 02	42 350 N	124 245 W	10	32	2	3	3	3	5	13	3	2	4	1	3.09
850911	12 052	8	01 02 03	42 534 N	124 316 W	10	32	3	3	3	3	5	13	3	2	4	1	19.12
850911	12 109	8	01 02 04	43 018 N	124 269 W	10	32	2	3	3	3	5	13	4	2	4	1	9.07
850911	12 215	8	01 02 05	43 190 N	124 241 W	10	32	3	3	3	3	5	13	4	2	4	1	17.32
850911	13 180	8	01 02 05	44 367 N	124 046 W	10	32	3	3	3	3	5	13	4	2	4	1	78.95
850911	14 055	8	01 03 01	44 590 N	124 069 W	10	32	3	3	3	3	5	13	4	2	4	1	22.35
850911	14 151	8	01 03 02	45 151 N	124 045 W	10	32	3	3	3	3	5	13	3	2	4	1	16.18
850911	14 288	8	01 03 03	45 351 N	124 035 W	10	32	3	3	3	3	5	13	3	2	5	1	20.01
850911	14 350	8	01 03 04	45 501 N	124 048 W	10	32	3	3	3	3	5	13	3	2	4	1	15.02
850911	14 450	8	01 03 04	45 501 N	124 049 W	10	32	3	3	3	3	5	13	3	2	4	1	.00
850911	14 525	8	01 03 05	46 016 N	124 028 W	10	32	3	3	3	3	5	13	4	2	4	1	11.59
850911	15 010	8	01 03 06	46 156 N	124 087 W	10	32	3	3	3	3	5	13	3	2	4	1	14.58
850916	10 255	7	02 01 01	34 377 N	120 381 W	31	10	2	2	2	2	1	05	3	2	3	1	12.87
850916	10 337	7	02 01 02	34 485 N	120 375 W	31	10	2	2	2	2	5	13	2	2	4	1	10.81
850916	10 392	7	02 01 03	34 544 N	120 404 W	31	10	2	3	3	3	1	04	2	2	4	1	6.36
850916	10 491	7	02 01 04	35 091 N	120 394 W	31	10	2	3	2	3	1	04	2	2	4	1	14.72
850916	10 524	7	02 01 05	35 099 N	120 448 W	31	10	2	3	2	2	1	07	1	2	3	1	4.48
850916	10 553	7	02 01 06	35 115 N	120 494 W	31	10	2	3	2	3	5	13	2	1	4	1	4.08
850916	10 589	7	02 01 07	35 151 N	120 539 W	31	10	2	2	2	2	5	13	2	1	4	1	5.14
850916	11 008	7	02 01 08	35 178 N	120 532 W	31	10	2	3	2	2	1	04	2	2	3	1	2.75
850916	11 050	7	02 01 09	35 242 N	120 524 W	31	10	2	3	2	3	1	04	2	2	3	1	6.43
850916	11 060	7	02 01 10	35 259 N	120 534 W	31	10	2	3	2	2	1	04	2	2	3	1	1.88
850916	11 083	7	02 01 10	35 268 N	120 551 W	31	10	2	3	2	2	1	04	2	2	3	1	1.70
850916	11 084	7	02 01 11	35 268 N	120 552 W	31	10	2	3	1	1	1	04	2	2	3	1	.08
850916	11 226	7	02 01 11	35 383 N	121 112 W	31	10	2	3	1	1	1	04	2	2	3	1	17.37
850916	11 248	7	02 01 12	35 393 N	121 151 W	31	10	2	3	1	1	1	08	2	2	3	1	3.32
850916	11 276	7	02 01 12	35 399 N	121 169 W	31	10	2	3	1	1	1	08	2	2	3	1	1.85
850916	11 368	7	02 01 13	35 508 N	121 247 W	31	10	2	3	1	1	1	04	2	2	3	1	12.60
850916	11 423	7	02 01 13	35 542 N	121 282 W	31	10	2	3	1	1	1	04	2	2	3	1	4.35
850916	11 497	7	02 01 13	36 008 N	121 343 W	31	10	2	3	1	1	1	04	2	2	3	1	7.61
850916	12 009	7	02 01 14	36 137 N	121 482 W	31	10	1	2	1	1	1	08	1	2	3	1	17.10

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver. Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850916	12 018	7	02 01 15	36 143 N 121 499 W	31 10	2 3	1 1	1 08	3	2	3	1	1.49
850916	12 125	7	02 01 15	36 184 N 121 543 W	31 10	2 3	1 1	1 08	3	2	3	1	6.38
850916	12 185	7	02 01 16	36 263 N 121 562 W	31 10	2 2	1 1	1 04	2	2	3	1	8.04
850916	12 212	7	02 01 17	36 294 N 121 575 W	31 10	2 2	2 2	1 04	2	2	3	1	3.27
850916	12 278	7	02 01 17	36 337 N 121 590 W	31 10	2 2	2 2	1 04	2	2	3	1	4.10
850916	12 311	7	02 01 18	36 382 N 121 572 W	31 10	2 3	3 3	1 04	2	2	3	1	4.72
850916	12 346	7	02 01 19	36 372 N 121 519 W	31 10	2 3	3 3	1	2	2	3	1	4.36
850916	12 396	7	02 01 19	36 420 N 121 493 W	31 10	2 3	3 3	1	2	2	3	1	5.57
850916	12 433	7	02 01 20	36 481 N 121 481 W	31 10	2 3	2 2	1 04	2	2	3	1	6.17
850916	12 448	7	02 01 21	36 502 N 121 488 W	31 10	2 3	1 1	1 04	2	2	3	1	2.17
850916	12 488	7	02 01 21	36 508 N 121 494 W	31 10	2 3	1 1	1 04	2	2	3	1	.00
850916	14 284	7	02 02 01	36 550 N 121 517 W	31 10	3 2	1 1	4 09	2	2	1	1	4.72
850916	14 302	7	02 02 01	36 560 N 121 529 W	31 10	3 2	1 1	4 09	2	2	1	1	1.10
850916	14 323	7	02 02 02	36 578 N 121 557 W	31 10	3 3	1 2	4 09	2	2	1	1	2.87
850916	14 334	7	02 02 03	36 574 N 121 573 W	31 10	3 3	1 2	4 09	3	2	1	1	1.33
850916	14 351	7	02 02 04	36 567 N 121 595 W	31 10	2 2	2 2	4 12	3	2	1	1	1.89
850916	14 492	7	02 02 05	37 057 N 122 179 W	31 10	3 3	1 2	4 09	3	2	1	1	17.22
850916	14 515	7	02 02 06	37 065 N 122 212 W	31 10	3 3	1 2	4 09	2	2	1	1	2.75
850916	14 598	7	02 02 06	37 151 N 122 257 W	31 10	3 3	1 2	4 09	2	2	1	1	9.19
850916	15 022	7	02 02 07	37 188 N 122 250 W	31 10	2 2	1 1	4 09	2	2	1	1	3.74
850916	15 076	7	02 02 07	37 229 N 122 256 W	31 10	2 2	1 1	4 09	2	2	1	1	3.82
850916	15 154	7	02 02 08	37 333 N 122 316 W	31 10	3 3	1 1	4 09	2	2	1	1	11.43
850916	15 178	7	02 02 09	37 371 N 122 305 W	31 10	3 3	2 3	4 09	2	2	1	1	3.89
850916	15 188	7	02 02 10	37 388 N 122 304 W	31 10	3 3	1 2	4 09	2	2	1	1	1.70
850916	15 267	7	02 02 10	37 488 N 122 320 W	31 10	3 3	1 2	4 09	2	2	1	1	9.68
850916	15 283	7	02 02 11	37 507 N 122 332 W	31 10	3 3	1 2	4 10	2	2	3	1	2.12
850916	15 337	7	02 02 12	37 536 N 122 427 W	31 10	2 3	2 3	4 10	2	2	3	1	8.04
850916	15 392	7	02 02 12	37 561 N 122 464 W	31 10	2 3	2 3	4 10	2	2	3	1	4.09
850916	15 414	7	02 02 13	37 588 N 122 492 W	31 10	2 3	1 2	4 09	2	2	3	1	3.48
850916	15 434	7	02 02 14	38 011 N 122 529 W	31 10	3 3	1 2	4 09	2	2	3	1	3.71
850916	15 466	7	02 02 15	38 005 N 122 588 W	31 10	3 3	2 3	5 13	1	2	4	1	4.68
850916	15 478	7	02 02 16	37 591 N 122 584 W	31 10	3 3	3 3	5 13	1	1	4	1	1.43
850916	15 495	7	02 02 17	37 595 N 123 020 W	31 10	3 3	2 3	5 13	1	1	4	1	2.86
850916	15 503	7	02 02 18	38 008 N 123 015 W	31 10	3 3	3 3	5 13	1	1	4	1	1.35
850916	15 542	7	02 02 19	38 069 N 122 587 W	31 10	2 2	1 2	4 07	2	2	3	1	6.48
850916	15 563	7	02 02 20	38 104 N 122 586 W	31 10	2 2	2 2	4 07	2	2	1	1	3.50
850916	15 590	7	02 02 21	38 146 N 123 009 W	31 10	3 3	2 2	4 07	2	2	1	1	4.57
850916	15 597	7	02 02 22	38 148 N 122 596 W	31 10	2 2	2 3	4 07	2	2	1	1	1.04
850916	16 024	7	02 02 23	38 179 N 123 023 W	31 10	3 3	2 3	4 07	2	2	1	1	3.75
850917	11 096	7	03 01 01	38 178 N 123 023 W	31 10	2 3	1 2	5 13	2	2	4	1	.58
850917	11 132	7	03 01 01	38 189 N 123 060 W	31 10	2 3	1 2	5 13	2	2	4	1	2.45
850917	11 168	7	03 01 02	38 242 N 123 064 W	31 10	2 3	2 3	5 13	2	2	4	1	5.30
850917	11 183	7	03 01 03	38 263 N 123 080 W	31 10	2 3	2 3	5 13	2	1	5	1	2.44
850917	11 203	7	03 01 04	38 285 N 123 112 W	31 10	2 3	2 3	5 13	2	2	5	1	3.33
850917	11 268	7	03 01 04	38 321 N 123 175 W	31 10	2 3	2 3	5 13	2	2	5	1	5.17
850917	11 354	7	03 01 05	38 432 N 123 287 W	31 10	2 3	2 3	5 13	2	2	4	1	14.13

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850917	15 198	7	03 02 01	39 140 N	123 468 W	31	10	3	3	2	3	5	13	2	2	4	1	9.03
850917	15 316	7	03 02 02	39 323 N	123 468 W	31	10	3	3	2	3	4	09	2	2	3	1	18.29
850917	15 335	7	03 02 03	39 355 N	123 473 W	31	10	3	3	2	3	4	08	2	2	3	1	3.22
850917	15 410	7	03 02 03	39 430 N	123 497 W	31	10	3	3	2	3	4	08	2	2	3	1	8.14
850918	12 182	7	04 01 01	38 356 N	123 213 W	31	10	2	3	2	3	4	07	2	2	1	1	7.07
850918	12 265	7	04 01 02	38 448 N	123 316 W	31	10	2	2	1	2	4	07	2	2	1	1	12.21
850918	12 303	7	04 01 03	38 488 N	123 366 W	31	10	2	2	1	2	4	07	3	2	1	1	5.58
850918	12 392	7	04 01 04	38 584 N	123 439 W	31	10	3	2	2	2	4	07	3	2	1	1	11.15
850918	12 402	7	04 01 05	38 596 N	123 428 W	31	10	2	2	3	3	4	04	2	2	1	1	1.47
850918	12 427	7	04 01 06	39 027 N	123 418 W	31	10	2	2	2	2	4	04	2	2	1	1	3.19
850918	12 486	7	04 01 06	39 074 N	123 433 W	31	10	2	2	2	2	4	04	2	2	1	1	4.53
850918	12 537	7	04 01 07	39 139 N	123 468 W	31	10	2	2	2	2	4	04	3	2	1	1	7.04
850918	12 582	7	04 01 08	39 198 N	123 488 W	31	10	2	2	2	2	4	07	3	2	1	1	6.09
850918	12 588	7	04 01 09	39 206 N	123 496 W	31	10	2	2	2	2	4	04	3	2	1	1	1.01
850918	13 020	7	04 01 10	39 253 N	123 494 W	31	10	2	2	2	2	4	07	3	2	1	1	4.70
850918	13 066	7	04 01 11	39 315 N	123 469 W	31	10	2	2	2	2	4	04	2	2	1	1	6.49
850918	13 085	7	04 01 12	39 343 N	123 465 W	31	10	2	2	2	2	1	04	2	2	1	1	2.81
850918	13 151	7	04 01 13	39 433 N	123 496 W	31	10	2	2	2	2	1	07	2	2	1	1	9.31
850918	13 203	7	04 01 14	39 506 N	123 522 W	31	10	2	2	1	1	1	07	2	2	1	1	7.56
850918	13 214	7	04 01 15	39 518 N	123 538 W	31	10	3	3	1	1	1	08	3	2	1	1	1.71
850918	13 246	7	04 01 16	39 556 N	123 573 W	31	10	2	3	1	1	1	08	3	2	1	1	4.65
850918	13 281	7	04 01 17	40 002 N	124 016 W	31	10	2	2	1	1	1	08	2	2	1	1	5.65
850918	13 304	7	04 01 18	40 021 N	124 048 W	31	10	2	2	1	1	1	08	4	2	1	1	3.10
850918	13 321	7	04 01 19	40 045 N	124 048 W	31	10	2	2	1	1	1	07	4	2	1	1	2.39
850918	13 345	7	04 01 20	40 070 N	124 090 W	31	10	3	3	2	2	1	07	4	2	1	1	4.07
850918	13 519	7	04 02 01	40 302 N	124 241 W	31	10	2	2	2	2	1	04	3	2	1	1	3.56
850918	13 564	7	04 02 02	40 358 N	124 212 W	31	10	2	2	2	2	1	07	3	2	1	1	6.01
850918	13 584	7	04 02 03	40 387 N	124 198 W	31	10	2	2	1	2	1	07	3	2	1	1	3.08
850918	14 007	7	04 02 04	40 416 N	124 180 W	31	10	2	2	1	2	1	07	4	2	1	1	3.20
850918	14 051	7	04 02 04	40 452 N	124 156 W	31	10	2	2	1	2	1	07	4	2	1	1	4.03
850918	14 067	7	04 02 05	40 471 N	124 142 W	31	10	3	3	2	2	1	07	4	2	1	1	2.17
850918	14 098	7	04 02 06	40 511 N	124 117 W	31	10	3	3	2	2	1	06	4	2	1	1	4.42
850918	14 103	7	04 02 07	40 517 N	124 113 W	31	10	2	3	1	2	1	06	4	2	1	1	.67
850918	14 202	7	04 02 07	41 027 N	124 085 W	31	10	2	3	1	2	1	06	4	2	1	1	11.39
850918	14 209	7	04 02 08	41 031 N	124 100 W	31	10	4	4	1	2	1	06	4	2	1	1	1.19
850918	14 256	7	04 02 09	41 093 N	124 089 W	31	10	3	3	1	2	1	08	3	2	1	1	6.25
850918	14 280	7	04 02 10	41 127 N	124 079 W	31	10	2	2	1	1	1	08	3	2	1	1	3.48
850918	14 403	7	04 02 10	41 287 N	124 049 W	31	10	2	2	1	1	1	08	3	2	1	1	16.14
850918	14 433	7	04 02 11	41 327 N	124 058 W	31	10	2	2	1	1	1	08	4	2	1	1	4.05
850918	14 508	7	04 02 12	41 429 N	124 096 W	31	10	3	3	1	1	1	09	4	2	1	1	10.58
850918	14 521	7	04 02 13	41 441 N	124 116 W	31	10	3	3	1	1	1	09	3	2	1	1	1.91
850918	14 552	7	04 02 14	41 472 N	124 159 W	31	10	4	4	1	1	1	09	4	2	1	1	4.46
850918	15 020	7	04 02 15	41 572 N	124 131 W	31	10	3	3	1	2	1	09	5	2	1	1	10.21
850918	15 050	7	04 02 15	41 590 N	124 132 W	31	10	3	3	1	2	1	09	5	2	1	1	2.00
850918	15 086	7	04 02 15	42 024 N	124 170 W	31	10	3	3	1	2	1	09	5	2	1	1	2.68
850918	15 181	7	05 01 01	41 477 N	124 165 W	31	10	2	2	4	4	1	03	5	2	1	1	13.20

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850918	15 197	7	05 01 02	41 451 N	124 150 W	31	10	2	2	4	4	1	02	5	2	1	1	2.83
850918	15 227	7	05 01 03	41 416 N	124 102 W	31	10	2	2	4	4	1	03	5	2	1	1	5.00
850918	15 273	7	05 01 04	41 339 N	124 074 W	31	10	2	2	4	4	1	03	3	2	1	1	7.97
850918	15 446	7	05 01 05	41 052 N	124 112 W	31	10	2	2	4	4	1	02	4	2	1	1	28.84
850918	15 461	7	05 01 06	41 028 N	124 103 W	31	10	2	2	2	3	1	02	3	2	1	1	2.49
850918	15 538	7	05 01 07	40 501 N	124 124 W	31	10	2	2	4	4	1	02	3	2	1	1	12.79
850918	15 590	7	05 01 08	40 418 N	124 180 W	31	10	2	2	4	4	1	01	3	2	1	1	9.32
850919	10 095	7	06 01 01	40 153 N	124 242 W	31	10	1	2	1	1	1	05	2	2	1	1	10.91
850919	10 132	7	06 01 02	40 206 N	124 239 W	31	10	1	2	2	3	1	04	3	2	1	1	5.30
850919	10 179	7	06 01 03	40 272 N	124 274 W	31	10	1	2	1	1	1	04	3	2	1	1	7.11
850919	10 217	7	06 01 04	40 324 N	124 253 W	31	10	2	2	2	3	1	03	3	2	1	1	5.43
850919	10 243	7	06 01 05	40 362 N	124 232 W	31	10	2	2	3	3	1	03	3	2	1	1	4.12
850919	10 272	7	06 01 06	40 402 N	124 212 W	31	10	2	2	2	3	1	03	2	2	1	1	4.27
850919	10 321	7	06 01 07	40 468 N	124 165 W	31	10	2	2	3	3	1	03	2	1	2	1	7.49
850919	10 542	7	07 01 01	40 117 N	124 358 W	31	10	2	2	2	2	1	08	4	2	1	1	9.57
850919	10 551	7	07 01 02	40 112 N	124 373 W	31	10	2	2	3	3	1	08	4	2	1	1	1.25
850919	11 041	7	07 02 01	40 136 N	124 236 W	31	10	2	2	4	4	1	02	4	2	1	1	10.76
850919	11 050	7	07 02 02	40 145 N	124 221 W	31	10	2	2	4	4	1	02	4	2	1	1	1.45
850919	11 081	7	07 03 01	40 124 N	124 233 W	31	10	2	2	1	2	1	08	3	2	1	1	2.29
850919	11 090	7	07 03 02	40 120 N	124 249 W	31	10	2	2	2	3	1	08	4	2	1	1	1.28
850919	11 128	7	07 03 03	40 098 N	124 323 W	31	10	3	3	2	3	1	08	4	2	1	1	6.06
850919	11 216	7	07 04 01	40 125 N	124 194 W	31	10	1	2	4	4	1	03	4	2	1	1	10.51
850919	11 242	7	07 05 01	40 108 N	124 208 W	31	10	2	2	1	2	1	08	2	2	1	1	2.14
850919	11 256	7	07 05 02	40 106 N	124 237 W	31	10	3	3	2	3	1	08	3	2	1	1	2.22
850919	11 288	7	07 05 03	40 090 N	124 300 W	31	10	3	3	2	3	1	08	4	2	1	1	5.07
850919	11 377	7	07 06 01	40 104 N	124 165 W	31	10	2	2	4	4	1	03	3	2	1	1	10.54
850919	11 413	7	07 07 01	40 085 N	124 190 W	31	10	3	2	1	2	1	08	2	2	1	1	3.31
850919	11 453	7	07 07 02	40 069 N	124 271 W	31	10	4	4	2	3	1	08	3	2	1	1	6.39
850919	11 513	7	07 08 01	40 065 N	124 182 W	31	10	2	2	4	4	1	03	3	2	1	1	6.43
850919	11 537	7	07 08 02	40 078 N	124 137 W	31	10	2	2	4	4	1	03	2	2	1	1	3.67
850919	11 597	7	08 01 01	40 123 N	124 225 W	31	10	2	2	1	2	1	06	2	2	1	1	8.13
850919	12 032	7	08 01 02	40 162 N	124 258 W	31	10	2	3	2	3	1	06	4	2	1	1	4.64
850919	12 118	7	08 01 03	40 268 N	124 286 W	31	10	2	2	2	2	1	05	4	2	1	1	10.81
850919	12 131	7	08 01 04	40 286 N	124 277 W	31	10	2	2	1	2	1	05	3	2	1	1	1.92
850919	12 152	7	08 01 05	40 314 N	124 268 W	31	10	2	2	1	2	1	04	3	2	1	1	2.88
850919	12 187	7	08 01 06	40 367 N	124 237 W	31	10	1	2	1	1	1	04	2	2	1	1	5.79
850919	12 221	7	08 01 07	40 413 N	124 211 W	31	10	2	2	2	2	1	04	2	2	1	1	5.00
850919	14 082	7	09 01 01	41 012 N	124 224 W	31	10	3	3	3	3	4	12	3	1	2	1	10.33
850919	14 124	7	09 02 01	41 023 N	124 173 W	31	10	2	2	3	3	4	04	4	1	2	1	3.93
850919	14 141	7	09 02 02	41 043 N	124 148 W	31	10	2	2	3	3	4	04	3	1	2	1	2.74
850919	14 162	7	09 02 03	41 068 N	124 122 W	31	10	2	2	3	3	4	04	2	1	2	1	3.17
850919	14 165	7	09 02 04	41 072 N	124 118 W	31	10	1	2	1	1	4	04	2	1	2	1	.50
850919	14 185	7	09 03 01	41 044 N	124 128 W	31	10	3	2	1	2	4	12	2	1	1	1	1.63
850919	14 210	7	09 03 02	41 014 N	124 164 W	31	10	3	2	2	3	4	12	2	1	1	1	4.04
850919	14 238	7	09 03 03	40 583 N	124 206 W	31	10	3	3	3	3	4	12	3	1	1	1	4.43
850919	14 282	7	09 04 01	41 001 N	124 146 W	31	10	2	3	3	3	4	05	3	1	1	1	5.19

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850919	14 289	7	09 04 02	41 008 N	124 136 W	31	10	2	3	3	3	4	05	2	1	1	1	1.02
850919	14 295	7	09 04 03	41 016 N	124 128 W	31	10	2	3	2	3	4	05	2	1	2	1	1.00
850919	14 315	7	09 04 04	41 040 N	124 103 W	31	10	1	2	1	2	4	05	2	1	2	1	3.05
850919	14 343	7	09 05 01	41 014 N	124 115 W	31	10	2	2	1	2	4	12	2	1	2	1	2.58
850919	14 360	7	09 05 02	40 595 N	124 141 W	31	10	2	2	2	3	4	12	3	1	2	1	2.73
850919	14 372	7	09 05 03	40 583 N	124 158 W	31	10	2	3	3	3	4	12	3	1	2	1	1.75
850919	14 391	7	09 05 04	40 562 N	124 187 W	31	10	3	3	3	3	4	12	3	1	2	1	3.03
850919	14 431	7	09 06 01	40 575 N	124 137 W	31	10	2	3	2	3	4	05	3	1	2	1	4.34
850919	14 450	7	09 06 02	40 594 N	124 101 W	31	10	1	2	1	2	4	05	2	1	2	1	3.31
850919	14 477	7	09 07 01	40 559 N	124 135 W	31	10	2	2	1	2	4	12	2	1	2	1	3.43
850919	14 488	7	09 07 02	40 547 N	124 152 W	31	10	2	2	2	3	4	12	2	1	2	1	1.75
850919	14 515	7	09 07 03	40 520 N	124 194 W	31	10	3	3	3	3	4	12	3	1	2	1	4.16
850919	14 547	7	09 08 01	40 523 N	124 151 W	31	10	2	2	2	3	4	06	3	1	3	1	3.38
850919	14 572	7	09 08 02	40 549 N	124 114 W	31	10	1	2	2	2	4	06	2	1	2	1	3.81
850919	14 598	7	09 09 01	40 518 N	124 144 W	31	10	2	2	1	2	4	12	2	1	3	1	2.65
850919	15 025	7	09 09 02	40 491 N	124 184 W	31	10	2	2	3	3	4	12	2	1	3	1	4.05
850919	15 046	7	09 09 03	40 466 N	124 219 W	31	10	3	3	3	3	4	12	2	1	3	1	3.64
850919	15 110	7	09 10 01	40 496 N	124 140 W	31	10	2	3	2	3	4	06	2	1	3	1	7.48
850919	15 159	7	09 11 01	40 439 N	124 208 W	31	10	2	2	2	3	4	12	2	1	3	1	5.69
850919	15 176	7	09 11 02	40 421 N	124 233 W	31	10	2	2	3	3	4	12	2	1	3	1	2.61
850919	15 192	7	09 11 03	40 403 N	124 253 W	31	10	2	2	3	3	4	12	3	1	3	1	2.35
850919	15 234	7	09 12 01	40 407 N	124 215 W	31	10	2	2	3	3	4	06	3	1	3	1	3.63
850919	15 254	7	09 12 02	40 428 N	124 192 W	31	10	2	2	2	3	4	06	2	1	3	1	2.72
850919	16 093	7	09 13 01	39 252 N	123 528 W	31	10	2	2	3	3	1	01	3	2	1	1	8.96
850920	11 563	7	10 01 01	38 047 N	123 006 W	31	10	2	2	2	3	4	12	2	1	1	1	4.60
850920	11 595	7	10 01 02	38 002 N	123 025 W	31	10	2	2	2	3	4	12	2	1	3	1	4.74
850920	12 008	7	10 01 03	37 584 N	123 038 W	31	10	2	3	2	3	1	12	2	1	3	1	2.07
850920	12 034	7	10 01 04	37 573 N	122 590 W	31	10	2	3	3	3	1	01	2	1	3	1	3.94
850920	12 045	7	10 01 05	37 587 N	122 594 W	31	10	2	3	2	3	1	03	1	1	3	1	1.43
850920	12 048	7	10 01 06	37 589 N	122 598 W	31	10	2	3	2	3	1	05	1	1	3	1	.37
850920	12 071	7	10 01 07	37 598 N	122 559 W	31	10	2	3	3	3	1	03	1	1	3	1	3.20
850920	12 100	7	10 01 08	37 574 N	122 509 W	31	10	2	2	3	3	1	02	1	1	3	1	4.61
850920	12 117	7	10 01 09	37 552 N	122 491 W	31	10	2	3	2	3	1	01	1	1	3	1	2.61
850920	12 152	7	10 01 10	37 518 N	122 434 W	31	10	1	2	2	2	1	01	1	1	2	1	5.63
850920	12 168	7	10 01 10	37 518 N	122 425 W	31	10	1	2	2	2	1	01	1	1	2	1	.79
850920	12 182	7	10 01 11	37 520 N	122 400 W	31	10	1	2	2	2	1	03	1	1	2	1	1.98
850920	12 191	7	10 01 12	37 509 N	122 385 W	31	10	2	3	2	3	1	12	1	1	2	1	1.61
850920	12 213	7	10 01 13	37 489 N	122 347 W	31	10	2	2	2	3	1	01	1	1	2	1	3.60
850920	12 227	7	10 01 14	37 472 N	122 330 W	31	10	2	2	3	3	1	12	1	1	2	1	2.16
850920	12 243	7	10 01 15	37 446 N	122 322 W	31	10	2	2	3	3	1	12	2	1	2	1	2.67
850920	12 262	7	10 01 16	37 419 N	122 317 W	31	10	2	3	3	3	1	12	2	1	2	1	2.72
850920	12 282	7	10 01 16	37 404 N	122 313 W	31	10	2	3	3	3	1	12	2	1	2	1	1.40
850920	12 298	7	10 01 16	37 406 N	122 312 W	31	10	2	3	3	3	1	12	2	1	2	1	.00
850920	12 315	7	10 01 17	37 384 N	122 310 W	31	10	2	3	3	3	1	12	2	2	1	1	2.20
850920	12 324	7	10 01 17	37 383 N	122 311 W	31	10	2	3	3	3	1	12	2	2	1	1	.00
850920	12 337	7	10 01 18	37 367 N	122 310 W	31	10	2	3	2	3	1	12	2	2	1	1	1.60

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
850920	12 397	7	10 01 18	37 338 N	122 324 W	31	10	2	3	2	3	1	12	2	2	1	1	3.22
850920	12 448	7	10 01 19	37 279 N	122 286 W	31	10	2	2	3	3	1	12	2	2	1	1	6.62
850920	12 492	7	10 01 20	37 213 N	122 262 W	31	10	2	2	2	3	4	12	1	2	1	1	6.86
850920	12 503	7	10 01 21	37 198 N	122 255 W	31	10	1	2	2	3	4	12	1	2	1	1	1.59
850920	12 528	7	10 01 21	37 190 N	122 256 W	31	10	1	2	2	3	4	12	1	2	1	1	.00
850920	12 580	7	10 01 22	37 110 N	122 256 W	31	10	1	2	1	2	4	12	1	2	1	1	7.99
850920	12 590	7	10 01 23	37 094 N	122 248 W	31	10	2	2	2	3	4	12	1	2	1	1	1.72
850920	13 011	7	10 01 24	37 070 N	122 222 W	31	10	1	2	3	3	4	03	1	2	1	1	3.17
850920	13 017	7	10 01 25	37 063 N	122 216 W	31	10	1	2	3	3	4	12	1	2	1	1	.84
850920	13 024	7	10 01 26	37 051 N	122 216 W	31	10	1	2	1	2	4	12	1	2	1	1	1.20
850920	13 059	7	10 01 26	37 050 N	122 189 W	31	10	1	2	1	2	4	12	1	2	1	1	1.18
850920	13 073	7	10 01 27	37 029 N	122 171 W	31	10	2	2	2	3	4	01	1	2	1	1	2.54
850920	13 081	7	10 01 28	37 019 N	122 163 W	31	10	2	2	3	3	4	01	2	2	1	1	1.18
850920	13 103	7	10 01 29	36 590 N	122 132 W	31	10	2	2	3	3	4	01	2	1	1	1	3.81
850920	13 129	7	10 01 30	36 561 N	122 085 W	31	10	2	2	4	4	4	01	2	1	1	2	4.74
850920	13 161	7	10 01 31	36 552 N	122 015 W	31	10	2	2	4	4	1	03	3	1	1	2	5.66
850920	13 171	7	10 01 32	36 556 N	121 598 W	31	10	2	2	4	4	1	04	3	1	1	2	1.41
850920	13 178	7	10 01 33	36 553 N	121 584 W	31	10	2	2	4	4	1	03	3	2	1	1	1.15
850920	13 182	7	10 01 34	36 556 N	121 576 W	31	10	2	2	4	4	1	04	3	2	1	1	.70
850920	13 193	7	10 01 35	36 564 N	121 556 W	31	10	2	3	3	3	1	04	3	1	1	1	1.78
850920	13 205	7	10 01 36	36 553 N	121 536 W	31	10	2	3	4	4	1	04	3	1	1	1	1.94
850920	13 215	7	10 01 37	36 541 N	121 525 W	31	10	2	3	4	4	1	02	3	1	1	1	1.48
850920	13 252	7	10 01 38	36 491 N	121 491 W	31	10	1	2	2	3	1	02	3	1	1	1	5.69
850920	13 263	7	10 01 39	36 472 N	121 482 W	31	10	2	2	2	3	1	01	3	1	1	1	2.03
850920	13 352	7	10 01 40	36 353 N	121 532 W	31	10	2	2	2	3	1	12	3	1	1	1	12.55
850920	13 367	7	10 01 41	36 368 N	121 543 W	31	10	3	2	2	3	1	08	3	1	1	1	1.82
850920	13 378	7	10 01 42	36 376 N	121 558 W	31	10	3	2	2	3	1	09	3	1	1	1	1.44
850920	13 385	7	10 01 43	36 377 N	121 569 W	31	10	4	4	2	3	4	09	2	1	1	1	.88
850920	13 427	7	10 01 44	36 317 N	121 585 W	31	10	2	2	2	3	4	12	2	1	1	1	6.13
850920	13 441	7	10 01 45	36 295 N	121 582 W	31	10	2	3	2	3	4	12	2	1	1	1	2.21
850920	13 457	7	10 01 46	36 268 N	121 574 W	31	10	1	2	3	3	1	01	2	1	1	1	2.77
850920	13 486	7	10 01 47	36 224 N	121 558 W	31	10	2	2	3	3	1	01	2	1	1	1	4.58
850920	13 503	7	10 01 48	36 199 N	121 553 W	31	10	2	2	2	3	1	01	2	2	1	1	2.53
850920	13 521	7	10 01 49	36 164 N	121 548 W	31	10	2	2	2	3	1	01	3	2	1	1	3.52
851004	11 204	8	11 01 01	48 189 N	124 281 W	34	33	2	2	2	2	1	07	3		2	1	15.55
851004	11 275	8	11 01 01	48 224 N	124 448 W	34	33	2	2	2	2	1	07	3		2	1	11.00
851004	11 396	8	11 02 01	48 044 N	124 433 W	34	33	2	2	2	2	1	12	3		2	1	17.00
851004	11 570	8	11 02 02	47 385 N	124 251 W	34	33	2	2	2	2	1	12	2		2	1	28.63
851004	12 236	8	11 02 03	46 538 N	124 104 W	34	33	1	1	1	1	1	12	2		2	1	45.79
851004	12 471	8	11 02 04	46 175 N	124 063 W	34	33	2	2	1	1	1	12	3		2	1	36.40
851004	12 495	8	11 02 04	46 151 N	124 069 W	34	33	2	2	1	1	1	12	3		2	1	.57
851004	13 367	8	11 03 01	45 562 N	124 011 W	34	33	2	2	2	2	1	01	2		2	1	17.23
851004	13 429	8	11 03 02	45 456 N	124 003 W	34	33	2	2	2	2	1	01	3		2	1	10.61
851004	13 492	8	11 03 03	45 342 N	123 593 W	34	33	2	2	2	2	1	01	2		2	1	11.42
851004	13 569	8	11 03 04	45 202 N	124 018 W	34	33	2	2	2	2	1	12	1		2	1	14.10
851004	14 080	8	11 03 05	44 594 N	124 026 W	34	33	2	2	2	2	1	12	2		2	1	20.80

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
851004	14 252	8	11 03 06	44 284 N	124 069 W	34	33	2	2	3	3	1	12	3		2	1	31.15
851014	10 520	7	12 01 01	34 341 N	120 389 W	31	10	2	2	1	2	2	05	1	2	1	1	10.25
851014	10 539	7	12 01 02	34 364 N	120 390 W	31	10	2	2	2	3	2	05	3	2	1	1	2.30
851014	10 552	7	12 01 03	34 385 N	120 382 W	31	10	2	2	3	3	2	04	2	2	1	1	2.20
851014	10 580	7	12 01 04	34 422 N	120 369 W	31	10	1	2	1	2	2	04	2	2	1	1	3.85
851014	11 012	7	12 01 04	34 425 N	120 366 W	31	10	1	2	1	2	2	04	2	2	1	1	.00
851014	11 072	7	12 01 05	34 508 N	120 372 W	31	10	1	2	1	2	2	05	2	2	1	1	8.31
851014	11 098	7	12 01 06	34 550 N	120 407 W	31	10	2	2	2	2	2	06	3	2	1	1	5.08
851014	11 119	7	12 01 07	34 570 N	120 402 W	31	10	2	2	2	2	2	05	3	2	1	1	2.04
851014	11 177	7	12 01 08	35 003 N	120 398 W	31	10	2	2	2	3	2	05	2	2	1	1	3.31
851014	11 192	7	12 01 08	35 007 N	120 392 W	31	10	2	2	2	3	2	05	2	2	1	1	.00
851014	11 199	7	12 01 09	35 016 N	120 390 W	31	10	1	2	1	2	2	05	2	2	1	1	.91
851014	11 290	7	12 01 09	35 094 N	120 450 W	31	10	1	2	1	2	2	05	2	2	1	1	9.08
851014	11 300	7	12 01 10	35 095 N	120 464 W	31	10	4	4	1	2	2	05	2	2	1	1	1.14
851014	11 352	7	12 01 11	35 133 N	120 531 W	31	10	2	2	1	2	2	06	2	2	1	1	6.66
851014	11 355	7	12 01 11	35 138 N	120 540 W	31	10	2	2	1	2	2	06	2	2	1	1	.00
851014	11 472	7	12 01 12	35 277 N	121 014 W	31	10	2	2	2	2	2	05	2	2	1	1	15.15
851014	11 511	7	12 01 13	35 322 N	121 066 W	31	10	2	2	1	2	2	07	2	2	1	1	6.17
851014	11 550	7	12 01 13	35 347 N	121 080 W	31	10	2	2	1	2	2	07	2	2	1	1	2.81
851014	11 569	7	12 01 14	35 368 N	121 097 W	31	10	1	1	1	1	2	06	1	2	1	1	2.51
851014	12 012	7	12 01 14	35 390 N	121 151 W	31	10	1	1	1	1	2	06	1	2	1	1	4.37
851014	12 038	7	12 01 15	35 460 N	121 224 W	31	10	2	2	1	2	2	06	1	2	1	1	9.17
851014	12 072	7	12 01 15	35 461 N	121 223 W	31	10	2	2	1	2	2	06	1	2	1	1	.00
851014	12 091	7	12 01 16	35 480 N	121 237 W	31	10	1	2	1	1	2	07	1	2	1	1	2.21
851014	12 105	7	12 01 17	35 499 N	121 242 W	31	10	1	2	2	2	2	07	1	2	1	1	1.94
851014	12 153	7	12 01 18	35 540 N	121 289 W	31	10	1	2	1	2	2	07	1	2	1	1	5.59
851014	12 160	7	12 01 18	35 538 N	121 291 W	31	10	1	2	1	2	2	07	1	2	1	1	.00
851014	12 242	7	12 01 19	36 030 N	121 374 W	31	10	1	2	1	1	2	07	1	2	1	1	11.39
851014	12 276	7	12 01 20	36 068 N	121 409 W	31	10	1	1	1	1	2	07	1	2	1	1	4.73
851014	12 291	7	12 01 20	36 075 N	121 414 W	31	10	1	1	1	1	2	07	1	2	1	1	.00
851014	12 331	7	12 01 21	36 120 N	121 458 W	31	10	1	2	1	1	2	07	1	2	1	1	5.73
851014	12 345	7	12 01 21	36 124 N	121 465 W	31	10	1	2	1	1	2	07	1	2	1	1	.00
851014	12 385	7	12 01 22	36 159 N	121 527 W	31	10	1	2	1	2	2	07	1	2	1	1	6.10
851014	12 403	7	12 01 23	36 180 N	121 553 W	31	10	2	2	1	2	2	07	1	2	1	1	2.96
851014	12 435	7	12 01 23	36 186 N	121 560 W	31	10	2	2	1	2	2	07	1	2	1	1	.00
851014	12 454	7	12 01 24	36 222 N	121 569 W	31	10	1	2	1	2	2	07	1	2	1	1	3.67
851014	12 475	7	12 01 25	36 245 N	121 572 W	31	10	1	2	2	3	2	07	1	2	1	1	2.31
851014	12 487	7	12 01 25	36 249 N	121 575 W	31	10	1	2	2	3	2	07	1	2	1	1	.00
851014	12 529	7	12 01 26	36 311 N	121 594 W	31	10	1	2	2	3	2	07	2	2	1	1	6.38
851014	13 000	7	12 01 27	36 380 N	121 578 W	31	10	2	2	2	3	2	06	3	2	1	1	7.01
851014	13 020	7	12 01 28	36 361 N	121 555 W	31	10	2	3	4	4	2	02	2	2	1	1	2.64
851014	13 033	7	12 01 28	36 356 N	121 550 W	31	10	2	3	4	4	2	02	2	2	1	1	.00
851014	13 047	7	12 01 29	36 362 N	121 534 W	31	10	2	2	1	2	2	05	2	2	1	1	1.41
851014	13 072	7	12 01 29	36 374 N	121 532 W	31	10	2	2	1	2	2	05	2	2	1	1	.93
851014	13 083	7	12 01 29	36 377 N	121 530 W	31	10	2	2	1	2	2	05	2	2	1	1	.00
851014	13 101	7	12 01 30	36 398 N	121 522 W	31	10	2	2	2	2	2	06	3	2	1	1	2.19

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
851014	13 120	7	12 01 30	36 399 N	121 523 W	31	10	2	2	2	2	2	06	3	2	1	1	.00
851014	13 175	7	12 01 31	36 467 N	121 490 W	31	10	2	3	2	3	2	06	3	2	1	1	7.29
851014	13 208	7	12 01 31	36 482 N	121 498 W	31	10	2	3	2	3	2	06	3	2	1	1	1.50
851014	14 414	7	12 02 01	36 557 N	121 528 W	31	10	2	2	2	3	1	08	2	2	1	1	5.51
851014	14 435	7	12 02 01	36 571 N	121 543 W	31	10	2	2	2	3	1	08	2	2	1	1	.00
851014	14 455	7	12 02 02	36 573 N	121 574 W	31	10	2	3	2	3	1	09	2	2	1	1	2.48
851014	14 465	7	12 02 03	36 567 N	121 591 W	31	10	2	2	2	2	1	12	3	2	1	1	1.48
851014	14 515	7	12 02 04	36 572 N	122 076 W	31	10	2	2	2	3	1	12	3	2	1	1	6.81
851014	14 557	7	12 02 05	37 009 N	122 135 W	31	10	3	3	2	3	1	12	3	2	1	1	5.99
851014	15 047	7	12 02 06	37 103 N	122 231 W	31	10	3	3	1	2	1	08	3	2	1	1	12.12
851014	15 061	7	12 02 07	37 114 N	122 247 W	31	10	3	3	2	2	1	08	3	2	1	1	1.68
851014	15 092	7	12 02 08	37 153 N	122 256 W	31	10	3	3	1	2	1	08	3	2	1	1	3.96
851014	15 142	7	12 02 09	37 219 N	122 252 W	31	10	2	2	2	2	2	07	3	2	1	1	6.60
851014	15 203	7	12 02 10	37 292 N	122 304 W	31	10	3	3	2	3	2	09	3	2	1	1	8.38
851014	15 225	7	12 02 11	37 321 N	122 320 W	31	10	4	4	2	2	2	09	3	2	1	1	3.16
851014	15 260	7	12 02 12	37 367 N	122 311 W	31	10	3	3	2	2	2	09	3	2	1	1	4.65
851014	15 278	7	12 02 13	37 399 N	122 310 W	31	10	2	3	1	2	1	07	2	2	1	1	3.20
851014	15 293	7	12 02 13	37 401 N	122 309 W	31	10	2	3	1	2	1	07	2	2	1	1	.00
851014	15 358	7	12 02 14	37 497 N	122 332 W	31	10	2	3	1	2	2	08	2	2	1	1	9.77
851014	15 373	7	12 02 15	37 510 N	122 353 W	31	10	4	4	1	2	2	09	3	2	1	1	2.10
851014	15 416	7	12 02 16	37 531 N	122 417 W	31	10	4	4	2	3	2	09	2	2	1	1	5.47
851014	15 490	7	12 02 17	38 004 N	122 522 W	31	10	4	4	2	3	2	09	1	2	1	1	11.03
851014	15 512	7	12 02 18	38 013 N	122 564 W	31	10	2	3	2	3	2	10	1	2	1	1	3.42
851014	15 522	7	12 02 19	38 003 N	122 575 W	31	10	2	3	2	3	2	12	1	2	1	1	1.32
851014	15 531	7	12 02 20	37 591 N	122 576 W	31	10	2	3	4	4	2	12	1	2	1	1	1.20
851014	15 550	7	12 02 21	37 592 N	123 015 W	31	10	2	2	3	3	2	11	1	2	1	1	3.07
851014	15 561	7	12 02 22	38 003 N	123 020 W	31	10	4	4	3	3	2	09	1	2	1	1	1.16
851014	15 574	7	12 02 23	38 024 N	123 005 W	31	10	2	2	2	3	2	07	1	2	1	1	2.40
851014	15 586	7	12 02 23	38 028 N	123 005 W	31	10	2	2	2	3	2	07	1	2	1	1	.00
851014	16 034	7	12 02 24	38 105 N	122 585 W	31	10	2	3	2	3	2	07	1	2	1	1	7.85
851014	16 041	7	12 02 25	38 113 N	122 588 W	31	10	3	3	2	3	2	07	1	2	1	1	.83
851014	16 062	7	12 02 25	38 120 N	122 592 W	31	10	3	3	2	3	2	07	1	2	1	1	.00
851014	16 092	7	12 02 26	38 160 N	122 599 W	31	10	3	3	2	3	2	09	1	2	1	1	4.03
851014	16 118	7	12 02 26	38 161 N	123 003 W	31	10	3	3	2	3	2	09	1	2	1	1	.00
851014	16 201	7	12 02 27	38 251 N	123 076 W	31	10	3	3	2	3	2	09	1	2	1	1	10.66
851014	16 212	7	12 02 28	38 266 N	123 085 W	31	10	3	3	1	1	2	09	1	2	1	1	1.65
851015	08 488	7	13 01 01	38 331 N	123 270 W	31	10	2	2	2	2	2	05	2	2	1	1	14.65
851015	08 505	7	13 01 02	38 350 N	123 294 W	31	10	1	2	2	2	2	05	1	2	1	1	2.67
851015	08 593	7	13 01 02	38 439 N	123 392 W	31	10	1	2	2	2	2	05	1	2	1	1	11.68
851015	09 048	7	13 01 02	38 485 N	123 457 W	31	10	1	2	2	2	2	05	1	2	1	1	6.42
851015	09 087	7	13 01 02	38 492 N	123 459 W	31	10	1	2	2	2	2	05	1	2	1	1	.00
851015	09 098	7	13 01 03	38 519 N	123 454 W	31	10	1	2	2	2	2	05	1	2	1	1	2.72
851015	09 139	7	13 01 03	38 520 N	123 457 W	31	10	1	2	2	2	2	05	1	2	1	1	.00
851015	09 147	7	13 01 04	38 526 N	123 463 W	31	10	1	2	2	2	2	05	1	2	1	1	.76
851015	09 193	7	13 01 04	38 572 N	123 489 W	31	10	1	2	2	2	2	05	1	2	1	1	4.59
851015	09 206	7	13 01 04	38 576 N	123 485 W	31	10	1	2	2	2	2	05	1	2	1	1	.00

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat. Long.	Observer Codes Left Right	Sea Surface Penetration Left I O	Sea Surface Penetration Right I O	Sun Position Ver.	Sun Position Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
851015	09 231	7	13 01 05	39 006 N 123 463 W	31 10	1 2	3 3	2	03	1	2	1	1	3.45
851015	09 259	7	13 01 05	39 013 N 123 464 W	31 10	1 2	3 3	2	03	1	2	1	1	.40
851015	09 275	7	13 01 05	39 020 N 123 464 W	31 10	1 2	3 3	2	03	1	2	1	1	.00
851015	09 294	7	13 01 06	39 049 N 123 466 W	31 10	1 2	2 3	2	04	1	2	1	1	2.90
851015	09 320	7	13 01 06	39 057 N 123 469 W	31 10	1 2	2 3	2	04	1	2	1	1	.00
851015	09 333	7	13 01 07	39 078 N 123 479 W	31 10	1 2	3 3	2	04	1	2	1	1	2.23
851015	09 362	7	13 01 08	39 118 N 123 502 W	31 10	1 2	2 2	2	04	1	2	1	1	4.37
851015	09 371	7	13 01 08	39 122 N 123 500 W	31 10	1 2	2 2	2	04	1	2	1	1	.00
851015	09 506	7	13 01 09	39 334 N 123 497 W	31 10	1 2	2 3	2	05	1	2	1	1	21.20
851015	09 590	7	13 01 09	39 405 N 123 508 W	31 10	1 2	2 3	2	05	1	2	1	1	6.41
851015	10 016	7	13 01 10	39 426 N 123 519 W	31 10	1 2	2 2	2	05	1	2	1	1	2.26
851015	10 039	7	13 01 10	39 445 N 123 539 W	31 10	1 2	2 2	2	05	1	2	1	1	.67
851015	10 117	7	13 01 10	39 524 N 123 579 W	31 10	1 2	2 2	2	05	1	2	1	1	8.62
851015	10 156	7	13 01 11	39 577 N 124 018 W	31 10	1 2	1 2	2	05	1	2	1	1	6.08
851015	10 229	7	13 01 11	40 010 N 124 055 W	31 10	1 2	1 2	2	05	1	2	1	1	4.73
851015	10 268	7	13 01 12	40 054 N 124 089 W	31 10	1 2	1 1	1	05	1	2	1	1	5.11
851015	10 323	7	13 01 12	40 093 N 124 161 W	31 10	1 2	1 1	1	05	1	2	1	1	6.19
851015	10 345	7	13 01 12	40 103 N 124 176 W	31 10	1 2	1 1	1	05	1	2	1	1	.73
851015	10 420	7	13 01 12	40 159 N 124 249 W	31 10	1 2	1 1	1	05	1	2	1	1	7.24
851015	10 499	7	13 01 13	40 293 N 124 307 W	31 10	1 1	1 1	1	05	2	2	1	1	14.10
851015	10 557	7	13 01 14	40 376 N 124 265 W	31 10	2 2	2 3	1	04	2	2	1	1	8.89
851015	10 579	7	13 01 14	40 378 N 124 268 W	31 10	2 2	2 3	1	04	2	2	1	1	.00
851015	11 055	7	13 01 15	40 488 N 124 188 W	31 10	2 2	2 3	1	04	2	1	1	1	12.56
851015	11 096	7	13 01 15	40 497 N 124 178 W	31 10	2 2	2 3	1	04	2	1	1	1	.78
851015	11 164	7	13 01 15	40 574 N 124 114 W	31 10	2 2	2 3	1	04	2	1	1	1	8.18
851015	11 203	7	13 01 15	41 021 N 124 110 W	31 10	2 2	2 3	1	04	2	1	1	1	4.22
851015	11 225	7	13 01 15	41 040 N 124 116 W	31 10	2 2	2 3	1	04	2	1	1	1	.00
851015	11 268	7	13 01 16	41 107 N 124 142 W	31 10	2 2	2 3	1	05	2	1	1	1	6.98
851015	11 294	7	13 01 17	41 142 N 124 113 W	31 10	2 3	3 3	1	04	2	1	1	1	4.12
851015	11 387	7	13 01 18	41 281 N 124 077 W	31 10	2 2	2 3	1	04	2	1	1	1	14.16
851015	11 475	7	13 01 19	41 412 N 124 116 W	31 10	1 2	1 2	1	05	2	1	1	1	12.98
851015	11 502	7	13 01 20	41 464 N 124 141 W	31 10	1 2	1 2	1	06	2	1	1	1	5.52
851015	11 555	7	13 01 21	41 520 N 124 199 W	31 10	3 3	2 3	1	06	2	1	1	1	7.07
851015	12 037	7	13 01 22	42 043 N 124 186 W	31 10	1 1	1 2	1	06	2	1	1	1	12.33
851216	10 291	1	40 01 01	33 296 N 118 457 W	30 22	2 2	2 2	2	03	2	2	1	1	1.67
851216	10 376	1	40 01 02	33 387 N 118 362 W	30 22	2 2	2 3	2	03	2	2	1	1	12.06
851216	10 466	1	40 02 01	33 296 N 118 409 W	30 22	2 3	2 2	2	10	2	2	1	1	9.34
851216	10 483	1	40 02 01	33 295 N 118 410 W	30 22	2 3	2 2	2	10	2	2	1	1	.00
851216	10 511	1	40 02 02	33 262 N 118 444 W	30 22	3 3	2 2	2	10	2	2	1	1	4.35
851216	11 058	1	40 03 01	33 334 N 118 321 W	30 22	2 2	2 3	2	04	2	2	1	1	12.18
851216	11 096	1	40 03 01	33 348 N 118 310 W	30 22	2 2	2 3	2	04	2	2	1	1	1.47
851216	11 159	1	40 04 01	33 288 N 118 347 W	30 22	2 3	2 2	1	10	2	2	1	1	6.91
851216	11 222	1	40 05 01	33 341 N 118 262 W	30 22	2 2	2 3	1	04	2	2	1	1	7.37
851216	11 281	1	40 06 01	33 277 N 118 306 W	30 22	3 3	2 2	1	10	2	2	1	1	6.85
851216	11 342	1	40 07 01	33 323 N 118 231 W	30 22	1 2	2 2	1	04	2	2	1	1	7.56
851216	11 403	1	40 08 01	33 266 N 118 273 W	30 22	2 3	2 2	1	10	2	2	1	1	6.80

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
851216	11 463	1	40 09 01	33 312 N	118 193 W	30	22	1	2	3	3	1	04	1	2	1	1	7.47
851216	11 526	1	40 10 01	33 254 N	118 233 W	30	22	2	3	2	2	1	10	1	2	1	1	6.82
851216	11 583	1	40 11 01	33 296 N	118 157 W	30	22	2	2	2	3	1	04	2	2	1	1	7.13
851216	12 047	1	40 12 01	33 233 N	118 212 W	30	22	3	3	2	2	1	10	2	2	1	1	6.54
851216	12 106	1	40 13 01	33 273 N	118 139 W	30	22	2	2	3	3	1	04	2	2	1	1	7.29
851216	12 167	1	40 14 01	33 210 N	118 187 W	30	22	3	3	2	2	1	10	2	2	1	1	6.64
851216	12 225	1	40 15 01	33 247 N	118 122 W	30	22	1	2	2	2	1	04	1	2	1	1	6.93
851216	12 324	1	40 16 01	33 143 N	118 210 W	30	22	3	3	2	2	1	11	1	2	1	1	11.87
851216	12 339	1	40 16 02	33 125 N	118 226 W	30	22	2	3	2	2	1	11	1	2	1	1	2.24
851216	12 477	1	40 17 01	33 212 N	118 091 W	30	22	2	2	2	2	1	05	1	2	1	1	13.97
851216	12 587	1	40 18 01	33 095 N	118 166 W	30	22	2	3	2	2	1	11	1	2	1	1	12.65
851216	13 006	1	40 18 01	33 086 N	118 179 W	30	22	2	3	2	2	1	11	1	2	1	1	1.56
851216	13 126	1	40 19 01	33 129 N	118 231 W	30	22	2	2	2	2	2	12	1	2	1	1	7.14
851216	13 191	1	40 20 01	33 181 N	118 202 W	30	22	2	2	2	2	2	06	1	2	1	1	6.36
851216	13 246	1	40 21 01	33 138 N	118 271 W	30	22	2	3	1	2	2	12	2	2	1	1	7.07
851216	13 310	1	40 22 01	33 192 N	118 238 W	30	22	1	2	2	2	2	06	2	2	1	1	5.99
851216	13 369	1	40 23 01	33 142 N	118 316 W	30	22	2	2	2	2	2	12	1	2	1	1	7.14
851216	13 441	1	40 24 01	33 195 N	118 280 W	30	22	2	2	2	2	2	06	1	2	1	1	6.70
851216	13 481	1	40 24 01	33 195 N	118 280 W	30	22	2	2	2	2	2	06	1	2	1	1	.00
851216	13 537	1	40 25 01	33 157 N	118 346 W	30	22	2	2	2	2	2	12	1	2	1	1	6.81
851216	14 016	1	40 26 01	33 232 N	118 288 W	30	22	1	2	2	2	2	06	1	2	1	1	7.14
851216	14 077	1	40 27 01	33 198 N	118 352 W	30	22	2	2	2	2	2	12	1	2	1	1	7.10
851216	14 143	1	40 28 01	33 255 N	118 311 W	30	22	1	2	2	2	2	06	1	2	1	1	6.84
851216	14 202	1	40 29 01	33 208 N	118 387 W	30	22	2	2	2	2	2	12	1	2	1	1	7.10
851216	14 264	1	40 30 01	33 266 N	118 346 W	30	22	2	2	2	2	2	06	1	2	1	1	6.61
851216	14 301	1	40 31 01	33 257 N	118 378 W	30	22	2	2	2	2	2	12	1	2	1	1	2.58
851216	14 338	1	40 31 01	33 230 N	118 413 W	30	22	2	2	2	2	2	12	1	2	1	1	4.04
851216	14 452	1	40 32 01	33 342 N	118 305 W	30	22	2	2	2	2	2	06	1	2	1	1	13.75
851217	10 308	1	41 01 01	33 388 N	118 361 W	22	30	2	2	3	3	2	03	1	2	1	1	13.88
851217	10 377	1	41 02 01	33 325 N	118 380 W	22	30	2	3	2	2	2	10	1	2	1	1	5.77
851217	10 427	1	41 02 02	33 264 N	118 447 W	22	30	3	3	2	2	2	10	1	2	1	1	8.27
851217	10 501	1	41 03 01	33 290 N	118 368 W	22	30	2	2	3	3	2	03	2	2	1	1	6.47
851217	10 553	1	41 03 02	33 335 N	118 311 W	22	30	2	2	2	3	2	04	1	2	1	1	6.54
851217	11 018	1	41 04 01	33 288 N	118 348 W	22	30	2	3	2	2	2	10	1	2	1	1	6.34
851217	11 088	1	41 05 01	33 341 N	118 263 W	22	30	2	2	2	3	2	04	1	2	1	1	7.32
851217	11 143	1	41 06 01	33 278 N	118 307 W	22	30	3	3	2	2	2	10	1	2	1	1	6.89
851217	11 208	1	41 07 01	33 323 N	118 230 W	22	30	2	2	2	3	2	04	1	2	1	1	7.67
851217	11 263	1	41 08 01	33 266 N	118 273 W	22	30	2	3	2	2	2	10	1	2	1	1	6.88
851217	11 326	1	41 09 01	33 313 N	118 192 W	22	30	2	2	2	2	2	04	1	2	1	1	7.67
851217	11 368	1	41 10 01	33 277 N	118 210 W	22	30	2	3	2	2	2	10	1	2	1	1	3.91
851217	11 412	1	41 10 01	33 255 N	118 234 W	22	30	2	3	2	2	2	10	1	2	1	1	2.94
851217	11 469	1	41 11 01	33 297 N	118 158 W	22	30	2	2	2	2	2	04	1	2	1	1	7.32
851217	11 536	1	41 12 01	33 233 N	118 212 W	22	30	3	3	2	2	1	10	1	2	1	1	6.61
851217	11 593	1	41 13 01	33 272 N	118 140 W	22	30	2	2	2	2	1	04	1	2	1	1	7.16
851217	12 053	1	41 14 01	33 211 N	118 188 W	22	30	3	3	2	2	1	10	1	2	1	1	6.74
851217	12 114	1	41 15 01	33 247 N	118 120 W	22	30	2	2	2	3	1	04	1	2	1	1	7.25

Table 7. continued

Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	End Leg or Sub-Leg Position (Decimal Minute) Lat.	Long.	Observer Codes Left	Right	Sea Surface Penetration Left I	O	Right I	O	Sun Position Ver.	Hor.	Beau No.	Fog or Haze Code	Cloud Cover Code	Swath Width Code	Length of Leg (NM)
851217	12 222	1	41 16 01	33 127 N	118 230 W	22	30	3	3	1	2	1	11	1	2	1	1	14.16
851217	12 337	1	41 17 01	33 211 N	118 090 W	22	30	2	2	2	2	1	05	1	2	1	1	13.96
851217	12 454	1	41 18 01	33 084 N	118 179 W	22	30	3	3	2	2	1	11	1	2	1	1	14.03
851217	12 565	1	41 19 01	33 128 N	118 231 W	22	30	3	3	2	2	2	12	1	2	1	1	7.32
851217	13 047	1	41 20 01	33 180 N	118 201 W	22	30	2	2	2	2	2	06	1	2	1	1	7.60
851217	13 104	1	41 21 01	33 136 N	118 271 W	22	30	2	2	2	2	2	12	1	2	1	1	7.22
851217	13 171	1	41 22 01	33 192 N	118 238 W	22	30	2	2	2	2	2	06	1	2	1	1	7.24
851217	13 233	1	41 23 01	33 143 N	118 317 W	22	30	2	2	2	2	2	12	1	2	1	1	7.20
851217	13 276	1	41 24 01	33 166 N	118 313 W	22	30	2	2	2	2	2	06	1	2	1	1	3.33
851217	13 315	1	41 24 01	33 197 N	118 280 W	22	30	2	2	2	2	2	06	1	2	1	1	4.06
851217	13 393	1	41 25 01	33 158 N	118 349 W	22	30	2	2	2	2	2	12	1	2	1	1	7.09
851217	13 461	1	41 26 01	33 231 N	118 287 W	22	30	2	2	2	2	2	06	1	2	1	1	6.86
851217	13 520	1	41 27 01	33 199 N	118 351 W	22	30	2	2	2	2	2	12	1	2	1	1	6.96
851217	13 588	1	41 28 01	33 257 N	118 311 W	22	30	2	2	2	2	2	06	1	2	1	1	6.86
851217	14 008	1	41 29 01	33 250 N	118 340 W	22	30	2	2	2	2	2	12	1	2	1	1	1.48
851217	14 064	1	41 29 01	33 207 N	118 388 W	22	30	2	2	2	2	2	12	1	2	1	1	5.91
851217	14 131	1	41 30 01	33 266 N	118 346 W	22	30	2	2	2	2	2	06	1	2	1	1	6.55
851217	14 185	1	41 31 01	33 231 N	118 415 W	22	30	2	2	2	2	2	12	1	2	1	1	6.80
851217	14 299	1	41 32 01	33 347 N	118 308 W	22	30	2	2	2	2	2	06	1	2	1	1	14.00

8. Marine mammal sightings at sea, classified by species code groups, as obtained during aerial surveys conducted between December 15, 1980 and December 17, 1985 along the U.S. west coast.

e l es	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Common dolphin (Delphinus delphis)								
	30		01 1	801216	08 399	1	02 01 01	33 329 N	118 315 W	1	1	3	1	2	01
	5		25 2	801216	10 099	1	02 03 01	33 295 N	118 322 W	1	1	1	1	2	02
	20		19 1	810115	12 280	1	06 03 02	33 262 N	118 233 W	1	1	1	2	1	02
	10		19 2	810115	12 280	1	06 03 02	33 262 N	118 233 W	1	1	2	2	1	02
	30		48 1	810116	11 409	1	07 04 03	33 187 N	118 170 W	1	2	1	1	1	01
	6		09 1	810323	13 000	1	13 02 04	33 171 N	118 270 W	1	2	3	2	1	09
	4		23 1	810324	11 300	1	14 04 04	33 183 N	118 183 W	1	1	1	1	1	11
	60		10 1	810325	11 270	1	15 01 05	33 195 N	118 352 W	1	2	2	2	1	08
	1		16 1	821213	12 523	1	16 03 02	33 280 N	118 275 W	1	1	1	2	2	03
	10		06 1	821215	10 526	1	18 02 01	33 274 N	118 437 W	1	2	1	1	2	10
	75		57 1	830203	13 097	1	21 21 01	33 161 N	118 240 W	1	1	2	2	2	07
	225		57 2	830203	13 097	1	21 21 01	33 161 N	118 240 W	1	1	3	2	2	07
	4		59 1	830203	13 172	1	21 22 01	33 147 N	118 287 W	1	1	1	2	2	06
	35		66 1	830205	13 498	1	23 25 01	33 164 N	118 335 W	1	1	3	2	5	13
	87		53 1	830206	14 063	1	24 27 01	33 229 N	118 313 W	1	1	2	2	2	12
	87		01 1	830207	11 257	1	25	33 364 N	118 262 W	2			2	1	
	225	50	26 1	831212	13 519	1	25 25 01	33 191 N	118 311 W	1	1	1	3	2	11
	100	26	01 1	831213	10 263	1	26 01 01	33 321 N	118 430 W	1	1	3	3	1	03
			09 1	831213	11 398	1	26 10 01	33 270 N	118 211 W	1	2	2	3	1	10
	7	39	25 1	831213	13 418	1	26 25 01	33 162 N	118 345 W	1	1	1	3	1	11
	160		44 1	831214	12 555	1	27	33 212 N	118 084 W	2			2	1	
	80		45 1	831214	12 567	1	27	33 214 N	118 079 W	2			2	1	
	30	20	03 1	840109	11 418	1	28 03 01	33 318 N	118 338 W	1	1	2	2	2	04
	60	20	03 2	840109	11 418	1	28 03 01	33 318 N	118 338 W	2	1	3	2	2	04
	10	27	13 1	840109	13 132	1	28 16 01	33 164 N	118 190 W	1	1	2	2	2	11
	30	27	13 2	840109	13 132	1	28 16 01	33 164 N	118 190 W	1	1	3	2	2	11
	17		14 1	840109	13 132	1	28 16 01	33 164 N	118 190 W	1	2	1	2	2	11
	17		14 2	840109	13 132	1	28 16 01	33 164 N	118 190 W	1	2	2	2	2	11
	17		14 3	840109	13 132	1	28 16 01	33 164 N	118 190 W	1	2	3	2	2	11
	50	43	19 1	840110	11 435	1	29 05 01	33 340 N	118 258 W	1	1	1	3	2	04
	30	35	30 1	840110	12 398	1	29 14 01	33 250 N	118 135 W	1	1	2	3	2	11
	70	35	30 2	840110	12 398	1	29 14 01	33 250 N	118 135 W	1	1	3	3	2	11
	75	17	52 1	840111	14 439	1	30 31 01	33 262 N	118 380 W	1	1	3	2	2	12
	125		07 1	840112	11 532	2	31	33 553 N	118 509 W	2			2	2	
	200		08 1	840112	12 188	2	31	33 568 N	118 390 W	2			1	2	
	21	29	17 1	840112	13 366	3	31 11 01	33 389 N	118 236 W	1	1	2	1	2	12
	200		20 1	840112	13 513	3	31 13 01	33 395 N	118 188 W	1	1	1	1	2	12
	200		20 2	840112	13 513	3	31 13 01	33 395 N	118 188 W	1	1	2	1	2	12
	200		21 1	840112	13 513	3	31 13 01	33 395 N	118 188 W	1	2	1	1	2	12
	200		21 2	840112	13 513	3	31 13 01	33 395 N	118 188 W	1	2	2	1	2	12
	28	26	25 1	840112	14 277	3	31 16 01	33 342 N	118 124 W	1	1	3	1	2	06
	10	42	29 1	840112	14 503	3	31 19 01	33 302 N	118 099 W	1	2	1	1	2	12
	20	42	29 2	840112	14 503	3	31 19 01	33 302 N	118 099 W	1	2	2	1	2	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Common dolphin (Delphinus delphis)								
05	75		31 1	840112	15 146	3	31	33 319 N	118 088 W	2			1	2	
05	115		21 1	841220	15 047	1	33	33 244 N	118 421 W	2			2	2	
05	178		12 1	841221	11 343	1	34 14 01	33 228 N	118 167 W	1	1	1	1	1	11
05	76		12 2	841221	11 343	1	34 14 01	33 228 N	118 167 W	1	1	2	1	1	11
05	82		13 1	841221	11 409	1	34 15 01	33 216 N	118 152 W	1	2	2	1	1	05
05	168		13 2	841221	11 409	1	34 15 01	33 216 N	118 152 W	1	2	3	1	1	05
05	154		15 1	841221	11 576	1	34 17 01	33 116 N	118 195 W	1	1	2	1	1	05
05	30		30 1	841221	13 044	1	34 25 01	33 190 N	118 310 W	1	2	1	1	1	11
05	75		30 2	841221	13 044	1	34 25 01	33 190 N	118 310 W	1	2	2	1	1	11
05	75		30 3	841221	13 044	1	34 25 01	33 190 N	118 310 W	1	2	3	1	1	11
05	5		31 1	841221	13 078	1	34 25 01	33 182 N	118 317 W	1	1	2	1	1	11
05	180		35 1	841221	13 412	1	34 31 01	33 233 N	118 411 W	1	2	3	1	2	12
05	100		46 1	841221	14 114	5	34 04 01	33 280 N	119 051 W	1	1	2	1	2	10
05	183		29 1	850114	12 297	1	35	33 079 N	118 154 W	2			1	1	
05	115		30 1	850114	12 305	1	35	33 094 N	118 150 W	2			1	1	
05	12		44 1	850114	13 269	1	35	33 241 N	118 293 W	2			1	2	
05	6		45 1	850114	13 274	1	35 27 01	33 246 N	118 295 W	1	1	1	1	2	12
05	6		46 1	850114	13 276	1	35 27 01	33 245 N	118 297 W	1	2	1	1	2	12
05	1		47 1	850114	13 280	1	35 27 01	33 243 N	118 299 W	1	2	1	1	2	12
05	8		47 2	850114	13 280	1	35 27 01	33 243 N	118 299 W	1	2	2	1	2	12
05	6		48 1	850114	13 281	1	35 27 01	33 242 N	118 300 W	1	1	2	1	2	12
05	40		49 1	850114	13 287	1	35 27 01	33 236 N	118 307 W	1	1	1	1	2	12
05	100		62 1	850114	14 082	1	35 32 01	33 344 N	118 311 W	1	2	1	1	2	12
05	62	24	19 1	850115	13 499	3	36 08 01	33 414 N	118 241 W	1	2	1	1	2	06
05	63	24	19 2	850115	13 499	3	36 08 01	33 414 N	118 241 W	1	2	2	1	2	06
05	3		03 1	851216	10 342	1	40 01 02	33 351 N	118 401 W	1	1	1	2	2	03
05	55		08 1	851216	11 057	1	40 03 01	33 334 N	118 321 W	1	1	1	2	2	04
05	75		09 1	851216	11 057	1	40 03 01	33 334 N	118 321 W	1	2	1	2	2	04
05	75		09 2	851216	11 057	1	40 03 01	33 334 N	118 321 W	1	2	2	2	2	04
05	112		21 1	851216	14 300	1	40 31 01	33 257 N	118 378 W	1	2	3	1	2	12
05	200		01 1	851217	10 144	1	41	33 305 N	118 390 W	2			1	2	
05	122		02 1	851217	10 186	1	41	33 303 N	118 457 W	2			1	2	
05	150	56	03 1	851217	10 225	1	41 01 01	33 300 N	118 458 W	1	1	1	1	2	03
05	40		12 1	851217	13 275	1	41 24 01	33 166 N	118 313 W	1	2	2	1	2	06
05	40		12 2	851217	13 275	1	41 24 01	33 166 N	118 313 W	1	2	3	1	2	06
05	60		18 1	851217	14 007	1	41 29 01	33 250 N	118 340 W	1	1	1	1	2	12
05	120		18 2	851217	14 007	1	41 29 01	33 250 N	118 340 W	1	1	2	1	2	12
							Bottlenose dolphin (Tursiops truncatus)								
18	4		04 1	801217	09 030	1	03 01 04	33 155 N	118 291 W	1	1	1	1	2	07

8. continued

e l es	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								Bottlenose dolphin (Tursiops truncatus)					
	5		05 2	801217	09 040	1	03 01 04	33 161 N 118 301 W	1	1	2	1	2 07
	2		16 1	801217	09 370	1	03 02 03	33 182 N 118 145 W	1	2	2	1	2 10
	2		17 2	801217	09 450	1	03 02 04	33 171 N 118 270 W	1	2	2	2	2 07
	1		20 1	801217	09 460	1	03 02 04	33 173 N 118 291 W	1	1	1	2	2 07
	2		36 1	801217	10 220	1	03 03 04	33 175 N 118 225 W	1	2	1	2	2 08
	1		17 1	801218	11 099	1	04 03 04	33 191 N 118 300 W	1	2	1	2	
	2		22 2	801218	11 370	1	04 04 04	33 175 N 118 196 W	1	1	1	1	5 13
	7		17 2	810113	10 290	1	05 02 04	33 164 N 118 246 W	1	2	1	1	2 07
	2		26 1	810113	10 400	1	05 02 05	33 284 N 118 401 W	1	1	2	1	2 06
	3		21 2	810115	12 380	1	06 03 04	33 172 N 118 196 W	1	2	2	1	1 09
	12		22 1	810115	12 410	1	06 03 04	33 183 N 118 256 W	1	2	1	1	1 09
	5		22 2	810115	12 410	1	06 03 04	33 183 N 118 256 W	1	2	3	1	1 09
	5		23 1	810115	12 480	1	06 03 05	33 255 N 118 346 W	1	2	1	1	1 08
	2		34 1	810115	13 100	1	06 04 05	33 184 N 118 236 W	1	2	2	1	1 10
	2		20 2	810116	10 360	1	07 02 04	33 161 N 118 225 W	1	2	2	1	2 08
	6		02 1	810117	09 500	1	08 01 04	33 152 N 118 265 W	1	2	3	3	2 07
	4		10 1	810117	10 330	1	08 02 04	33 161 N 118 225 W	1	1	2	2	2 07
	4		31 1	810117	11 379	1	08 04 04	33 175 N 118 196 W	1	1	1	2	2 10
	6		15 1	810224	10 150	1	10 03 02	33 264 N 118 243 W	1	2	2	1	2 01
	2		35 1	810224	11 069	1	10 04 08	33 290 N 118 369 W	1	2	2	2	
	4		17 1	810226	10 200	1	11 03 02	33 252 N 118 212 W	1	1	1	3	2 01
	2		14 1	810227	09 460	1	12 01 05	33 241 N 118 385 W	1	1	1	2	2 05
	3		14 2	810227	09 460	1	12 01 05	33 241 N 118 385 W	1	1	2	2	2 05
	4		43 1	810227	11 049	1	12 03 05	33 295 N 118 380 W	1	1	1	2	1 05
	3		52 1	810227	11 200	1	12 04 04	33 183 N 118 183 W	1	2	1	2	1 10
	8		02 1	810323	12 221	1	13 01 05	33 159 N 118 324 W	1	2	3	2	1 09
	5		11 1	810323	13 119	1	13 02 05	33 312 N 118 418 W	1	1	1	2	1 09
	1		17 1	810323	13 510	1	13 04 01	33 290 N 118 346 W	1	1	2	3	1 03
	10		12 1	821213	12 280	1	16 02 05	33 190 N 118 321 W	1	1	1	3	2 07
	1		16 4	821214	12 122	1	17 02 02	33 242 N 118 142 W	1	1	1	1	2 02
	4		51 1	830203	12 570	1	21	33 179 N 118 180 W	2			2	2
	10		65 1	830203	13 231	1	21 23 01	33 177 N 118 267 W	1	2	1	2	2 12
	5		36 1	830205	12 312	1	23 16 01	33 155 N 118 205 W	1	2	1	2	5 13
	6		27 2	830206	12 146	1	24 14 02	33 235 N 118 159 W	1	2	3	2	5 13
	4		28 1	830206	12 246	1	24 15 01	33 197 N 118 170 W	1	1	1	2	5 13
	7		16 1	831213	12 191	1	26 16 01	33 201 N 118 148 W	1	1	1	2	1 11
	13	22	17 1	840111	12 123	1	30 10 01	33 261 N 118 222 W	1	1	3	1	2 11
	22		19 1	851216	13 480	1	40	33 194 N 118 271 W	2			1	2
	6		07 1	851217	11 367	1	41 10 01	33 277 N 118 210 W	1	1	3	1	2 10
	9	45	13 1	851217	13 313	1	41 24 01	33 195 N 118 282 W	1	1	1	1	2 06
	1	42	15 1	851217	13 352	1	41 25 01	33 202 N 118 297 W	1	1	1	1	2 12
	1	53	17 1	851217	13 579	1	41 28 01	33 244 N 118 320 W	1	1	1	1	2 06
	8	45	19 1	851217	14 094	1	41 30 01	33 228 N 118 389 W	1	2	1	1	2 06

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Risso's dolphin (Grampus griseus)								
21	10		01 1	801215	09 510	1	01 01 01	33 333 N	118 386 W	1	2	2	1	2	02
21	20		05 1	801215	10 199	1	01 01 04	33 159 N	118 324 W	1	2	3	1	2	07
21	53		05 2	801215	10 199	1	01 01 04	33 159 N	118 324 W	1	2	2	1	2	07
21	1		09 1	801215	10 400	1	01 02 01	33 312 N	118 372 W	1	2	2	2	2	02
21	20		17 1	801215	11 150	1	01 02 05	33 284 N	118 401 W	1	2	3	1	2	06
21	15		18 1	801215	11 160	1	01 02 05	33 300 N	118 411 W	1	2	3	1	2	06
21	12		27 1	801215	11 379	1	01 03 03	33 166 N	118 176 W	1	1	1	1	2	11
21	12		41 1	801215	11 561	1	01 04 01	33 290 N	118 369 W	1	2	2	2	2	03
21	5		03 1	801216	08 520	1	02 01 02	33 250 N	118 110 W	1	1	2	1	2	01
21	1		05 1	801216	09 060	1	02 01 04	33 153 N	118 274 W	1	1	1	1	2	07
21	8		07 1	801216	09 170	1	02 01 05	33 301 N	118 433 W	1	2	3	1	2	05
21	7		10 1	801216	09 180	1	02 01 05	33 315 N	118 445 W	1	2	3	1	2	05
21	8		20 1	801216	09 420	1	02 02 03	33 191 N	118 142 W	1	2	2	1	2	10
21	3		21 1	801216	09 500	1	02 02 04	33 173 N	118 285 W	1	1	1	1	2	07
21	7		23 1	801216	10 019	1	02 02 05	33 312 N	118 418 W	1	1	1	1	2	07
21	13		05 1	801217	09 040	1	03 01 04	33 161 N	118 301 W	1	1	1	1	2	07
21	2		06 1	801217	09 040	1	03 01 04	33 161 N	118 301 W	1	1	1	1	2	07
21	2		06 2	801217	09 040	1	03 01 04	33 161 N	118 301 W	1	1	2	1	2	07
21	2		03 1	801218	09 430	1	04 01 04	33 144 N	118 236 W	1	1	1	1	5	13
21	3		27 1	801218	11 400	1	04 04 05	33 192 N	118 273 W	1	1	1	3	5	13
21	3		28 1	801218	11 400	1	04 04 05	33 192 N	118 273 W	1	2	1	3	5	13
21	14		07 1	810113	09 450	1	05 01 04	33 141 N	118 214 W	1	2	2	1	2	07
21	3		11 1	810113	10 081	1	05 02 02	33 312 N	118 318 W	1	1	3	1	2	01
21	12		13 1	810113	10 160	1	05 02 02	33 250 N	118 161 W	1	1	1	1	2	01
21	26		14 1	810113	10 160	1	05 02 02	33 250 N	118 161 W	1	2	2	1	2	01
21	40		14 2	810113	10 160	1	05 02 02	33 250 N	118 161 W	1	2	3	1	2	01
21	5		16 1	810113	10 280	1	05 02 04	33 161 N	118 225 W	1	1	2	1	2	07
21	30		05 1	810115	11 300	1	06 01 05	33 272 N	118 411 W	1	1	1	1	1	06
21	6		07 1	810115	11 320	1	06 01 05	33 302 N	118 434 W	1	2	2	1	1	06
21	6		11 1	810115	12 049	1	06 02 04	33 176 N	118 312 W	1	1	3	1	1	08
21	12		15 1	810115	12 120	1	06 02 05	33 260 N	118 376 W	1	2	2	1	1	07
21	25		16 1	810115	12 211	1	06 03 01	33 295 N	118 380 W	1	1	3	1	1	03
21	20		24 1	810115	12 480	1	06 03 05	33 255 N	118 346 W	1	2	1	1	1	08
21	35		36 1	810115	13 191	1	06 04 08	33 257 N	118 342 W	1	1	3	1	1	08
21	10		02 1	810116	09 390	1	07 01 03	33 213 N	118 105 W	1	1	2	1	2	10
21	10		03 1	810116	09 400	1	07 01 03	33 200 N	118 113 W	1	1	1	1	2	10
21	15		03 2	810116	09 400	1	07 01 03	33 200 N	118 113 W	1	1	2	1	2	10
21	23		07 1	810116	09 460	1	07 01 04	33 132 N	118 172 W	1	1	2	1	2	07

8. continued

e l es Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Risso's dolphin (Grampus griseus)							
14		14 1	810116	10 140	1	07 02 01	33 312 N	118 372 W	1	2	1	1	2	02
2		14 2	810116	10 140	1	07 02 01	33 312 N	118 372 W	1	2	2	1	2	02
6		17 1	810116	10 290	1	07 02 03	33 191 N	118 142 W	1	2	3	1	2	10
13		19 1	810116	10 331	1	07 02 04	33 145 N	118 163 W	1	2	2	1	2	08
4		22 1	810117	11 139	1	08 03 04	33 191 N	118 300 W	1	2	2	2	2	08
1		11 1	810223	12 020	1	09 03 05	33 265 N	118 354 W	1	2	1	3	1	06
20		01 1	810226	09 030	1	11 01 03	33 200 N	118 113 W	1	2	3	3	2	09
1		05 1	810226	09 320	1	11 02 01	33 312 N	118 395 W	1	1	1	3	2	02
40		10 1	810226	09 490	1	11 02 03	33 174 N	118 150 W	1	2	1	3	2	10
7		14 1	810226	10 139	1	11 03 01	33 295 N	118 380 W	1	1	1	3	2	02
3		15 1	810226	10 151	1	11 03 02	33 295 N	118 322 W	1	2	1	3	2	01
3		16 1	810226	10 151	1	11 03 02	33 295 N	118 322 W	1	1	3	3	2	01
3		29 2	810226	10 489	1	11 04 01	33 290 N	118 322 W	1	1	3	3	2	03
1		32 1	810227	10 481	1	12 03 03	33 224 N	118 144 W	1	1	1	2	1	11
4		04 1	810323	12 280	1	13 01 05	33 255 N	118 400 W	1	1	2	2	1	09
1		01 1	810324	09 160	1	14 01 01	33 333 N	118 412 W	1	1	3	2	2	02
25		02 1	810324	09 370	1	14 01 03	33 175 N	118 124 W	1	2	3	1	1	10
4		18 1	810325	12 100	1	15 02 05	33 225 N	118 352 W	1	1	1	2	1	08
1		01 2	821213	11 280	1	16 01 03	33 164 N	118 131 W	1	2	1	2	2	10
13		09 1	821213	12 180	1	16 02 03	33 162 N	118 155 W	1	1	1	2	2	11
5		10 1	821213	12 180	1	16 02 03	33 162 N	118 155 W	1	2	3	2	2	11
24		13 1	821213	12 350	1	16 02 05	33 261 N	118 380 W	1	1	1	3	2	07
8		07 1	821214	11 205	1	17 01 03	33 163 N	118 132 W	1	2	2	2	2	12
1		09 1	821214	11 419	1	17 01 05	33 255 N	118 400 W	1	2	1	1	2	07
23		10 1	821214	11 461	1	17 01 05	33 302 N	118 434 W	1	1	1	1	2	07
17		10 2	821214	11 461	1	17 01 05	33 302 N	118 434 W	1	1	2	1	2	07
8		16 1	821214	12 122	1	17 02 02	33 242 N	118 142 W	1	1	1	1	2	02
6		16 2	821214	12 122	1	17 02 02	33 242 N	118 142 W	1	1	2	1	2	02
1		16 3	821214	12 122	1	17 02 02	33 242 N	118 142 W	1	1	3	1	2	02
1		17 1	821214	12 124	1	17 02 02	33 241 N	118 135 W	1	1	1	1	2	02
1		17 2	821214	12 124	1	17 02 02	33 241 N	118 135 W	1	1	2	1	2	02
2		18 1	821214	12 124	1	17 02 02	33 241 N	118 135 W	1	2	2	1	2	02
25		19 1	821214	12 136	1	17 02 03	33 225 N	118 123 W	1	2	3	1	2	11
35		17 1	821215	12 047	1	18 13 01	33 223 N	118 190 W	1	2	1	1	2	05
9		21 1	821215	12 284	1	18 16 01	33 166 N	118 186 W	1	1	2	1	2	11
14		44 1	821215	13 222	1	18 21 01	33 149 N	118 253 W	1	1	1	1	2	12
2		46 1	821215	13 263	1	18 22 01	33 157 N	118 269 W	1	1	2	1	2	12
1		50 1	821215	13 396	1	18 24 01	33 173 N	118 298 W	1	1	2	1	2	06
3		51 1	821215	13 397	1	18 24 01	33 175 N	118 296 W	1	1	1	1	2	06
1		52 1	821215	13 439	1	18 25 01	33 184 N	118 313 W	1	2	1	1	2	12
12		52 2	821215	13 439	1	18 25 01	33 184 N	118 313 W	1	2	2	1	2	12
3		53 1	821215	13 441	1	18 25 01	33 183 N	118 315 W	1	1	1	1	2	12
10		54 1	821215	13 443	1	18 25 01	33 180 N	118 319 W	1	2	3	1	2	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Risso's dolphin (Grampus griseus)								
21	2		55 1	821215	13 447	1	18 25 01	33 177 N	118 323 W	1	2	2	1	2	12
21	7		55 2	821215	13 447	1	18 25 01	33 177 N	118 323 W	1	2	3	1	2	12
21	1		56 1	821215	13 504	1	18 26 01	33 185 N	118 330 W	1	2	2	1	2	06
21	2		57 1	821215	13 506	1	18 26 01	33 188 N	118 326 W	1	2	1	1	2	06
21	1		57 2	821215	13 506	1	18 26 01	33 188 N	118 326 W	1	2	2	1	2	06
21	19		20 1	821216	12 222	1	19 16 02	33 160 N	118 196 W	1	1	1	1	2	10
21	5		24 1	821216	12 351	1	19 17 02	33 183 N	118 108 W	1	2	2	2	2	05
21	3		28 1	821216	12 599	1	19 19 02	33 149 N	118 205 W	1	2	1	1	2	11
21	5		28 2	821216	12 599	1	19 19 02	33 149 N	118 205 W	1	2	2	1	2	11
21	10		28 3	821216	12 599	1	19 19 02	33 149 N	118 205 W	1	2	3	1	2	11
21	12		29 1	821216	13 001	1	19 19 02	33 147 N	118 208 W	1	1	1	1	2	11
21	5		30 1	821216	13 001	1	19 19 02	33 146 N	118 208 W	1	1	1	1	2	11
21	8		30 2	821216	13 001	1	19 19 02	33 146 N	118 208 W	1	1	2	1	2	11
21	2		30 3	821216	13 001	1	19 19 02	33 146 N	118 208 W	1	1	3	1	2	11
21	1		14 1	821217	11 401	1	20 16 02	33 161 N	118 196 W	1	2	2	2	2	10
21	1		15 1	821217	11 403	1	20 16 02	33 157 N	118 199 W	1	2	2	2	2	10
21	1		17 1	821217	12 130	1	20	33 150 N	118 178 W	2			2	2	
21	4		24 1	821217	12 154	1	20 19 01	33 160 N	118 196 W	1	2	2	2	2	10
21	1		25 1	821217	12 155	1	20 19 01	33 156 N	118 200 W	1	1	2	2	2	10
21	6		26 1	821217	12 237	1	20 20 01	33 160 N	118 214 W	1	2	2	3	2	05
21	5		03 1	830203	10 472	1	21 02 01	33 314 N	118 392 W	1	2	1	3	2	10
21	5		03 2	830203	10 472	1	21 02 01	33 314 N	118 392 W	1	2	2	3	2	10
21	2		05 1	830203	10 476	1	21 02 01	33 301 N	118 394 W	1	1	1	3	2	10
21	1		05 2	830203	10 476	1	21 02 01	33 301 N	118 394 W	1	1	2	3	2	10
21	10		06 1	830203	10 478	1	21 02 01	33 307 N	118 398 W	1	2	2	3	2	10
21	8		07 1	830203	10 484	1	21 02 01	33 296 N	118 409 W	1	1	1	3	2	10
21	6		08 1	830203	10 493	1	21 02 01	33 285 N	118 422 W	1	1	2	3	2	10
21	8		35 1	830203	11 568	1	21 12 01	33 253 N	118 181 W	1	1	3	2	2	11
21	12		45 2	830203	12 308	1	21 17 01	33 121 N	118 183 W	1	1	1	2	2	04
21	20		58 1	830203	13 147	1	21 21 01	33 137 N	118 267 W	1	2	2	2	2	07
21	13		70 1	830203	13 299	1	21 23 01	33 146 N	118 316 W	1	1	2	2	2	12
21	8		70 2	830203	13 299	1	21 23 01	33 146 N	118 316 W	1	1	3	2	2	12
21	5		71 1	830203	13 299	1	21 23 01	33 146 N	118 316 W	1	2	1	2	2	12
21	11		71 2	830203	13 299	1	21 23 01	33 146 N	118 316 W	1	2	2	2	2	12
21	25		77 1	830203	13 488	1	21	33 147 N	118 360 W	2			2	2	
21	8		78 1	830203	13 489	1	21	33 147 N	118 360 W	2			2	2	
21	9		84 1	830203	14 236	1	21 31 01	33 259 N	118 378 W	1	1	1	2	2	12
21	1		85 1	830203	14 237	1	21 31 01	33 259 N	118 378 W	1	2	1	2	2	12
21	1		85 2	830203	14 237	1	21 31 01	33 259 N	118 378 W	1	2	2	2	2	12
21	2		86 1	830203	14 237	1	21 31 01	33 255 N	118 383 W	1	1	1	2	2	12
21	1		87 1	830203	14 238	1	21 31 01	33 255 N	118 383 W	1	2	1	2	2	12
21	1		87 2	830203	14 238	1	21 31 01	33 255 N	118 383 W	1	2	2	2	2	12
21	1		88 1	830203	14 303	1	21 32 01	33 262 N	118 394 W	1	1	1	2	2	06

e 8. continued

ne al ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								Risso's dolphin (Grampus griseus)					
1			89 1	830203	14 303	1	21 32 01	33 262 N 118 394 W	1	2	1	2	2 06
9			02 1	830204	10 503	1	22 03 01	33 264 N 118 400 W	1	1	2	3	2 03
2			23 1	830204	13 317	1	22 25 01	33 161 N 118 340 W	1	2	1	3	2 12
2			24 1	830204	13 450	1	22 27 01	33 197 N 118 355 W	1	1	2	3	5 13
3			25 1	830204	13 450	1	22 27 01	33 197 N 118 355 W	2			3	5 13
2			26 1	830204	14 012	1	22 30 01	33 237 N 118 378 W	1	2	2	3	5 13
2			27 1	830204	14 068	1	22 31 01	33 254 N 118 389 W	1	1	2	2	5 13
2			28 1	830204	14 070	1	22 31 01	33 252 N 118 392 W	1	1	2	2	5 13
1			29 1	830204	14 073	1	22 31 01	33 248 N 118 396 W	1	1	2	2	5 13
1			03 1	830205	10 367	1	23 02 01	33 332 N 118 371 W	1	1	1	2	2 10
1			07 1	830205	10 434	1	23 02 02	33 267 N 118 445 W	1	1	2	2	2 10
1			08 1	830205	10 503	1	23 03 01	33 264 N 118 398 W	1	1	2	2	5 13
38			29 1	830205	11 434	1	23	33 318 N 118 190 W	2			1	5
11			47 1	830205	13 110	1	23 19 01	33 161 N 118 196 W	1	1	1	2	5 13
14			47 2	830205	13 110	1	23 19 01	33 161 N 118 196 W	1	1	2	2	5 13
18			62 1	830205	13 435	1	23 24 01	33 174 N 118 298 W	1	2	2	2	5 13
15			63 1	830205	13 438	1	23 24 01	33 176 N 118 296 W	1	2	1	2	5 13
20			68 1	830205	14 137	1	23 30 01	33 217 N 118 399 W	1	2	1	2	5 13
40			68 2	830205	14 137	1	23 30 01	33 217 N 118 399 W	1	2	2	2	5 13
3			07 1	830206	10 390	1	24 03 01	33 247 N 118 418 W	1	1	1	2	5 13
19			42 1	830206	13 320	1	24	33 140 N 118 289 W	2			2	5
17			23 1	831213	13 195	1	26	33 133 N 118 283 W	2			3	1
13	63		24 1	831213	13 222	1	26 22 01	33 164 N 118 265 W	1	1	1	3	1 05
3			46 1	831214	13 024	1	27	33 187 N 118 059 W	2			2	1
130			47 1	831214	13 025	1	27	33 185 N 118 063 W	2			2	1
1	34		18 1	840109	14 475	1	28 28 01	33 230 N 118 332 W	1	1	2	3	2 06
30	47		11 1	840110	11 242	1	29 03 01	33 269 N 118 393 W	1	1	1	3	2 04
1	37		42 1	840110	14 117	1	29 25 01	33 181 N 118 321 W	1	1	2	3	2 12
7			03 1	840111	10 480	1	30	33 240 N 118 380 W	2			3	2
40			22 1	840111	12 558	1	30 16 03	33 148 N 118 210 W	1	2	1	2	2 11
50			32 1	840111	13 270	1	30	33 123 N 118 181 W	2			2	2
35	35		33 1	840111	13 393	1	30 20 01	33 156 N 118 221 W	1	2	1	2	2 06
32	42		49 1	840111	14 355	1	30 29 01	33 214 N 118 381 W	1	2	1	2	2 12
18			53 1	840111	14 498	1	30	33 230 N 118 429 W	2			2	2
75			07 1	840113	11 140	4	32	33 073 N 118 261 W	2			3	2
4			11 1	841220	13 168	1	33 15 01	33 229 N 118 137 W	1	2	1	2	1 05
5			17 1	841220	14 217	1	33 24 01	33 148 N 118 335 W	1	2	2	2	2 06
10			22 1	841221	12 312	1	34 20 01	33 140 N 118 243 W	1	2	2	1	1 05
13			22 2	841221	12 312	1	34 20 01	33 140 N 118 243 W	1	2	3	1	1 05
3			23 1	841221	12 330	1	34 20 01	33 143 N 118 244 W	1	2	1	1	1 05
20			24 1	841221	12 438	1	34 22 01	33 155 N 118 274 W	1	1	2	1	1 06
9			27 1	841221	12 559	1	34 24 01	33 160 N 118 317 W	1	2	3	1	1 06
1			06 1	850114	10 259	1	35 02 01	33 355 N 118 356 W	1	2	1	2	2 10

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Risso's dolphin (Grampus griseus)								
21	2		07 1	850114	10 259	1	35 02 01	33 355 N	118 356 W	1	1	1	2	2	10
21	2		07 2	850114	10 259	1	35 02 01	33 355 N	118 356 W	1	1	2	2	2	10
21	2		08 1	850114	10 264	1	35 02 01	33 350 N	118 361 W	1	2	1	2	2	10
21	2		18 1	850114	11 178	1	35 09 02	33 300 N	118 198 W	1	2	3	1	1	04
21	1		19 1	850114	11 180	1	35 09 02	33 302 N	118 197 W	1	2	1	1	1	04
21	22		21 1	850114	11 196	1	35	33 310 N	118 177 W	2			1	1	
21	3		23 1	850114	11 214	1	35 10 01	33 289 N	118 195 W	1	1	1	1	1	10
21	4		23 2	850114	11 214	1	35 10 01	33 289 N	118 195 W	1	1	2	1	1	10
21	7		28 1	850114	12 170	1	35	33 209 N	118 079 W	2			1	1	
21	6		65 1	850114	14 156	3	35	33 410 N	118 167 W	2			1	2	
21	3		01 1	850116	10 426	6	37 02 01	34 227 N	119 504 W	1	2	1	2	2	03
21	7		04 1	850118	10 247	4	39	32 591 N	118 453 W	2			2	2	
21	16	50	10 1	851216	11 487	1	40 10 01	33 299 N	118 181 W	1	2	1	1	1	10
21	6	45	11 1	851216	11 491	1	40 10 01	33 294 N	118 187 W	1	2	1	1	1	10
21	2		12 1	851216	11 497	1	40 10 01	33 288 N	118 195 W	1	2	1	1	1	10
21	1	35	20 1	851216	14 167	1	40 29 01	33 246 N	118 345 W	1	1	2	1	2	12
21	3	28	06 1	851217	11 349	1	41 10 01	33 297 N	118 186 W	1	1	2	1	2	10
21	15		08 1	851217	12 416	1	41 18 01	33 128 N	118 131 W	1	2	1	1	1	11
21	20		08 2	851217	12 416	1	41 18 01	33 128 N	118 131 W	1	2	2	1	1	11
21	17	37	10 1	851217	13 092	1	41 21 01	33 150 N	118 256 W	1	1	1	1	2	12
							Pacific white-sided dolphin (Lagenorhynchus obliquidens)								
22	2		02 1	810226	09 050	1	11 01 03	33 171 N	118 126 W	1	2	3	3	2	09
22	1		03 1	821217	10 102	1	20 03 01	33 273 N	118 380 W	1	1	1	2	3	03
22	1		03 2	821217	10 102	1	20 03 01	33 273 N	118 380 W	1	1	2	2	3	03
22	6		02 1	830203	10 471	1	21 02 01	33 314 N	118 392 W	1	2	1	3	2	10
22	3		32 1	830203	11 450	1	21 10 01	33 273 N	118 211 W	1	2	1	3	2	11
22	2		33 1	830203	11 458	1	21 10 01	33 270 N	118 214 W	1	1	2	3	2	11
22	12		34 1	830203	11 458	1	21 10 01	33 270 N	118 214 W	1	2	1	3	2	11
22	7		02 1	830206	10 158	1	24 01 01	33 302 N	118 452 W	1	1	1	2	5	13
22	3		11 2	830206	10 591	1	24	33 298 N	118 336 W	2			2	5	
22	1		19 1	831212	12 338	1	25 16 01	33 187 N	118 165 W	1	2	1	3	1	11
22	6		23 1	831212	13 127	1	25	33 178 N	118 173 W	2			3	1	
22	10		22 1	831213	13 011	1	26 19 01	33 180 N	118 175 W	1	2	2	3	1	11
22	10		05 2	831214	10 561	1	27 02 01	33 279 N	118 429 W	1	2	1	3	1	10
22	1	31	23 1	831214	11 576	1	27 10 01	33 274 N	118 207 W	1	1	1	2	1	10
22	45		53 1	831214	13 196	1	27 19 01	33 167 N	118 186 W	1	1	3	2	1	11
22	3	67	54 1	831214	13 231	1	27 19 01	33 159 N	118 197 W	1	1	1	2	1	11
22	6		55 1	831214	13 231	1	27 19 01	33 159 N	118 197 W	1	2	1	2	1	11
22	6		55 2	831214	13 231	1	27 19 01	33 159 N	118 197 W	1	2	2	2	1	11

e 8. continued

ne al ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								Pacific white-sided dolphin (Lagenorhynchus obliquidens)					
	1		58 1	831214	14 168	1	27 28 01	33 216 N 118 352 W	1	2	1	3	2 12
	1		59 1	831214	14 170	1	27 28 01	33 218 N 118 348 W	1	2	1	3	2 12
	2		59 2	831214	14 170	1	27 28 01	33 218 N 118 348 W	1	2	2	3	2 12
	3	55	60 1	831214	14 231	1	27 29 01	33 236 N 118 355 W	1	1	1	3	2 12
	6	35	62 1	831214	14 236	1	27 29 01	33 230 N 118 361 W	1	1	2	3	2 12
	15		71 1	831214	14 447	1	27 32 01	33 308 N 118 345 W	1	2	1	2	2 06
	13	39	72 1	831214	14 447	1	27 32 01	33 308 N 118 345 W	1	1	2	2	2 06
	30		08 1	840109	12 307	1	28 10 01	33 268 N 118 213 W	1	2	1	2	2 11
	3	43	21 1	840109	15 150	1	28 32 01	33 294 N 118 363 W	1	2	1	3	2 06
	1	55	07 1	840110	11 163	1	29 02 01	33 301 N 118 403 W	1	2	1	3	2 10
	1	50	08 1	840110	11 167	1	29 02 01	33 297 N 118 407 W	1	2	1	3	2 10
	1	65	12 1	840110	11 244	1	29 03 02	33 269 N 118 393 W	1	1	1	2	2 04
	2	54	13 1	840110	11 250	1	29 03 02	33 276 N 118 386 W	1	1	1	2	2 04
	11		39 1	840110	13 431	1	29 20 01	33 175 N 118 198 W	1	2	1	3	2 06
	2		04 1	840111	10 500	1	30	33 247 N 118 432 W	2			3	2
	8	65	16 1	840111	12 090	1	30 10 01	33 299 N 118 180 W	1	2	1	1	2 11
	4	34	09 1	840113	11 352	4	32 28 01	32 576 N 118 380 W	1	1	2	2	2 04
	250		38 1	850114	13 177	1	35	33 172 N 118 355 W	2			2	1
	52		39 1	850114	13 197	1	35	33 172 N 118 359 W	2			2	1
	35		01 1	850115	10 200	1	36	33 322 N 118 465 W	2			1	2
	3	34	20 2	850115	13 516	3	36 08 01	33 418 N 118 238 W	1	2	2	1	2 06
	30	66	24 1	850115	14 131	3	36 13 01	33 394 N 118 146 W	1	1	1	2	2 12
	5		25 1	850115	14 186	3	36 14 01	33 379 N 118 136 W	1	1	1	2	2 06
	3	53	26 1	850115	14 186	3	36 14 01	33 379 N 118 136 W	1	2	1	2	2 06
	9		15 1	850116	14 063	2	38	34 003 N 118 487 W	2	2	1	2	2
	123		15 1	851216	12 347	1	40	33 114 N 118 223 W	2			1	1
	20		16 1	851216	12 586	1	40 18 01	33 095 N 118 166 W	1	1	3	1	1 11
								Northern right whale dolphin (Lissodelphis borealis)					
	2		09 1	810115	11 560	1	06 02 03	33 182 N 118 145 W	1	1	3	1	1 11
	1		04 1	810325	11 010	1	15 01 02	33 303 N 118 242 W	1	1	1	2	1 01
	2		05 1	810325	11 020	1	15 01 02	33 294 N 118 223 W	1	2	1	2	1 01
	2		06 1	810325	11 030	1	15 01 02	33 286 N 118 203 W	1	1	1	2	1 01
	6		07 1	810325	11 030	1	15 01 02	33 286 N 118 203 W	1	1	1	2	1 01
	12		07 2	810325	11 030	1	15 01 02	33 286 N 118 203 W	1	1	3	2	1 01

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								Short-finned pilot whale (Globicephala macrorhynchus)					
36	3		22 1	801215	11 249	1	01 03 01	33 295 N 118 322 W	1	2	2	2	2 03
36	1		24 1	801215	11 280	1	01 03 02	33 274 N 118 270 W	1	2	2	1	2 02
36	1		28 1	801215	11 400	1	01 03 04	33 173 N 118 202 W	1	1	2	1	2 08
36	1		29 1	801215	11 420	1	01 03 04	33 182 N 118 251 W	1	1	2	1	2 08
36	6		34 1	801215	11 490	1	01 03 05	33 243 N 118 336 W	1	2	2	1	2 06
36	10		42 1	801215	11 570	1	01 04 01	33 290 N 118 346 W	1	2	2	2	2 03
36	10		42 2	801215	11 570	1	01 04 01	33 290 N 118 346 W	1	2	3	2	2 03
36	17		46 1	801215	12 102	1	01 04 05	33 180 N 118 205 W	1	1	1	1	2 09
36	8		47 1	801215	12 110	1	01 04 05	33 182 N 118 223 W	1	2	1	1	2 09
36	13		48 1	801215	12 120	1	01 04 05	33 185 N 118 246 W	1	2	2	1	2 09
36	10		49 1	801215	12 120	1	01 04 05	33 185 N 118 246 W	1	2	1	1	2 09
36	2		49 2	801215	12 120	1	01 04 05	33 185 N 118 246 W	1	2	3	1	2 09
36	9		55 1	801215	12 210	1	01 04 08	33 274 N 118 356 W	1	2	3	1	2 08
36	2		25 1	801216	10 099	1	02 03 01	33 295 N 118 322 W	1	2	2	1	2 02
36	1		26 1	801216	10 100	1	02 03 01	33 295 N 118 322 W	1	1	1	1	2 02
36	25		29 1	801216	10 140	1	02 03 02	33 271 N 118 254 W	1	1	3	1	2 02
36	11		30 1	801216	10 150	1	02 03 02	33 262 N 118 233 W	1	2	1	1	2 02
36	7		30 2	801216	10 150	1	02 03 02	33 262 N 118 233 W	1	2	3	1	2 02
36	15		34 1	801216	10 270	1	02 03 04	33 175 N 118 225 W	1	1	1	1	2 08
36	7		39 1	801216	10 320	1	02 03 05	33 215 N 118 316 W	1	2	2	1	2 06
36	1		41 1	801216	10 442	1	02 04 01	33 290 N 118 364 W	1	2	2	1	2 02
36	4		41 2	801216	10 442	1	02 04 01	33 290 N 118 364 W	1	2	3	1	2 02
36	7		45 1	801216	10 520	1	02 04 02	33 248 N 118 220 W	1	2	1	1	2 02
36	14		45 2	801216	10 520	1	02 04 02	33 248 N 118 220 W	1	2	2	1	2 02
36	4		45 3	801216	10 520	1	02 04 02	33 248 N 118 220 W	1	2	3	1	2 02
36	4		47 1	801216	10 590	1	02 04 05	33 185 N 118 250 W	1	2	3	1	2 08
36	6		49 1	801216	11 000	1	02 04 05	33 192 N 118 273 W	1	2	1	1	2 08
36	4		49 2	801216	11 000	1	02 04 05	33 192 N 118 273 W	1	2	2	1	2 08
36	1		50 1	801216	11 000	1	02 04 05	33 192 N 118 273 W	1	1	2	1	2 08
36	10		51 1	801216	11 000	1	02 04 05	33 192 N 118 273 W	1	2	2	1	2 08
36	6		53 1	801216	11 009	1	02 04 05	33 195 N 118 296 W	1	2	1	1	2 08
36	1		61 1	801216	11 070	1	02 04 07	33 257 N 118 342 W	1	1	3	1	2 08
36	4		65 1	801216	11 099	1	02 04 08	33 290 N 118 369 W	1	1	2	1	2 07
36	3		65 2	801216	11 099	1	02 04 08	33 290 N 118 369 W	1	1	3	1	2 07
36	15		17 1	801217	09 450	1	03 02 04	33 171 N 118 270 W	1	1	3	2	2 07
36	1		31 1	801217	10 210	1	03 03 04	33 173 N 118 202 W	1	2	1	2	2 08
36	1		34 1	801217	10 220	1	03 03 04	33 175 N 118 225 W	1	2	1	2	2 08
36	2		35 1	801217	10 220	1	03 03 04	33 175 N 118 225 W	1	1	1	2	2 08
36	11		39 1	801217	10 240	1	03 03 04	33 184 N 118 274 W	1	2	2	2	2 08
36	22		41 1	801217	10 250	1	03 03 04	33 191 N 118 300 W	1	2	1	2	2 08
36	20		41 2	801217	10 250	1	03 03 04	33 191 N 118 300 W	1	2	2	2	2 08
36	15		43 1	801217	10 260	1	03 03 05	33 203 N 118 306 W	1	1	3	1	2 06
36	1		51 1	801217	10 410	1	03 04 02	33 282 N 118 302 W	1	2	1	1	2 02

e 8. continued

ne al es e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Short-finned pilot whale (Globicephala macrorhynchus)								
	16		57 1	801217	10 540	1	03 04 05	33 190 N	118 256 W	1	2	1	1	2	08
	1		57 2	801217	10 540	1	03 04 05	33 190 N	118 256 W	1	2	2	1	2	08
	1		58 1	801217	10 540	1	03 04 05	33 190 N	118 256 W	1	1	2	1	2	08
	16		60 1	801217	10 550	1	03 04 05	33 193 N	118 276 W	1	1	1	1	2	08
	20		60 2	801217	10 550	1	03 04 05	33 193 N	118 276 W	1	1	3	1	2	08
	15		62 1	801217	10 560	1	03 04 05	33 195 N	118 296 W	1	1	2	1	2	08
	6		63 1	801217	10 562	1	03 04 06	33 204 N	118 296 W	1	2	1	1	2	05
	2		64 1	801217	10 562	1	03 04 06	33 204 N	118 296 W	1	1	2	1	2	05
	6		74 2	801217	11 020	1	03 04 08	33 274 N	118 356 W	1	2	3	2	2	06
	1		01 1	801218	09 240	1	04 01 02	33 292 N	118 214 W	1	2	1	1	5	13
	3		01 2	801218	09 240	1	04 01 02	33 292 N	118 214 W	1	2	2	1	5	13
	2		02 1	801218	09 240	1	04 01 02	33 292 N	118 214 W	1	2	1	1	5	13
	1		02 2	801218	09 240	1	04 01 02	33 292 N	118 214 W	1	2	2	1	5	13
	4		22 1	801218	11 370	1	04 04 04	33 175 N	118 196 W	1	1	1	1	5	13
	4		23 1	801218	11 370	1	04 04 04	33 175 N	118 196 W	1	2	2	1	5	13
	5		24 1	801218	11 380	1	04 04 05	33 182 N	118 223 W	1	2	2	3	5	13
	3		24 2	801218	11 380	1	04 04 05	33 182 N	118 223 W	1	2	3	3	5	13
	7		26 1	801218	11 400	1	04 04 05	33 192 N	118 273 W	1	1	1	3	5	13
	3		30 1	801218	11 480	1	04 04 08	33 274 N	118 356 W	1	2	3	1	5	13
	7		04 1	810113	09 290	1	05 01 02	33 281 N	118 184 W	1	2	3	2	2	01
	12		30 1	810113	11 040	1	05 03 04	33 172 N	118 194 W	1	1	1	2	2	08
	15		31 1	810113	11 050	1	05 03 04	33 174 N	118 213 W	1	2	3	2	2	08
	2		33 1	810113	11 060	1	05 03 04	33 176 N	118 231 W	1	1	2	2	2	08
	20		34 1	810113	11 070	1	05 03 04	33 182 N	118 245 W	1	2	3	2	2	08
	10		39 1	810113	11 110	1	05 03 05	33 203 N	118 306 W	1	2	3	1	2	07
	5		42 1	810113	11 140	1	05 03 05	33 243 N	118 336 W	1	1	1	1	2	07
	20		48 1	810113	11 332	1	05 04 05	33 176 N	118 204 W	1	1	3	1	2	08
	8		49 1	810113	11 340	1	05 04 05	33 181 N	118 216 W	1	2	2	1	2	08
	6		50 1	810113	11 350	1	05 04 05	33 184 N	118 236 W	1	1	2	1	2	08
	7		51 1	810113	11 350	1	05 04 05	33 184 N	118 236 W	1	2	1	1	2	08
	44		53 1	810113	11 350	1	05 04 05	33 184 N	118 236 W	1	1	1	1	2	08
	17		54 1	810113	11 360	1	05 04 05	33 190 N	118 256 W	1	1	1	1	2	08
	16		54 2	810113	11 360	1	05 04 05	33 190 N	118 256 W	1	1	2	1	2	08
	25		58 1	810113	11 390	1	05 04 06	33 233 N	118 295 W	1	1	2	1	2	06
	5		20 1	810115	12 372	1	06 03 04	33 171 N	118 184 W	1	2	3	1	1	09
	45		21 1	810115	12 380	1	06 03 04	33 172 N	118 196 W	1	2	3	1	1	09
	1		29 1	810115	13 070	1	06 04 04	33 183 N	118 183 W	1	2	1	1	1	09
	3		30 1	810115	13 070	1	06 04 04	33 183 N	118 183 W	1	1	2	1	1	09
	3		31 1	810115	13 080	1	06 04 04	33 175 N	118 196 W	1	2	1	1	1	09
	6		31 2	810115	13 080	1	06 04 04	33 175 N	118 196 W	1	2	2	1	1	09
	6		32 1	810115	13 082	1	06 04 05	33 176 N	118 204 W	1	2	3	1	1	10
	5		01 1	810116	09 350	1	07 01 02	33 255 N	118 130 W	1	2	1	2	2	01
	2		28 1	810116	11 109	1	07 03 03	33 166 N	118 176 W	1	2	1	1	1	11

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Short-finned pilot whale (Globicephala macrorhynchus)								
36	10		30 1	810116	11 130	1	07 03 04	33 174 N	118 213 W	1	1	3	1	1	08
36	20		31 1	810116	11 140	1	07 03 04	33 176 N	118 231 W	1	2	3	1	1	08
36	9		32 1	810116	11 150	1	07 03 04	33 182 N	118 245 W	1	2	3	1	1	08
36	16		33 1	810116	11 150	1	07 03 04	33 182 N	118 245 W	1	2	2	1	1	08
36	1		36 1	810116	11 160	1	07 03 04	33 183 N	118 263 W	1	2	1	1	1	08
36	5		36 2	810116	11 160	1	07 03 04	33 183 N	118 263 W	1	2	3	1	1	08
36	7		38 1	810116	11 182	1	07 03 05	33 194 N	118 302 W	1	1	3	1	1	07
36	5		40 1	810116	11 210	1	07 03 05	33 234 N	118 332 W	1	1	1	1	1	07
36	3		40 2	810116	11 210	1	07 03 05	33 234 N	118 332 W	1	1	2	1	1	07
36	1		40 3	810116	11 210	1	07 03 05	33 234 N	118 332 W	1	1	3	1	1	07
36	18		41 1	810116	11 220	1	07 03 05	33 252 N	118 343 W	1	1	1	1	1	07
36	7		41 2	810116	11 220	1	07 03 05	33 252 N	118 343 W	1	1	2	1	1	07
36	23		47 1	810116	11 400	1	07 04 03	33 204 N	118 182 W	1	1	1	1	1	01
36	10		51 1	810116	11 432	1	07 04 05	33 180 N	118 205 W	1	1	3	1	1	08
36	20		52 1	810116	11 432	1	07 04 05	33 180 N	118 205 W	1	2	1	1	1	08
36	10		52 2	810116	11 432	1	07 04 05	33 180 N	118 205 W	1	2	3	1	1	08
36	19		54 1	810116	11 450	1	07 04 05	33 185 N	118 246 W	1	2	1	1	1	08
36	18		54 2	810116	11 450	1	07 04 05	33 185 N	118 246 W	1	2	2	1	1	08
36	14		55 1	810116	11 450	1	07 04 05	33 185 N	118 246 W	1	2	3	1	1	08
36	9		55 2	810116	11 450	1	07 04 05	33 185 N	118 246 W	1	2	1	1	1	08
36	7		56 1	810116	11 460	1	07 04 05	33 192 N	118 273 W	1	2	1	1	1	08
36	18		57 1	810116	11 460	1	07 04 05	33 192 N	118 273 W	1	1	3	1	1	08
36	18		58 1	810116	11 460	1	07 04 05	33 192 N	118 273 W	1	1	2	1	1	08
36	25		59 1	810116	11 470	1	07 04 05	33 195 N	118 296 W	1	2	3	1	1	08
36	9		60 1	810116	11 470	1	07 04 05	33 195 N	118 296 W	1	2	2	1	1	08
36	25		63 1	810116	11 530	1	07 04 07	33 257 N	118 342 W	1	1	3	1	1	09
36	26		18 1	810117	11 082	1	08 03 04	33 171 N	118 184 W	1	1	3	2	2	08
36	22		19 1	810117	11 100	1	08 03 04	33 174 N	118 216 W	1	2	3	2	2	08
36	10		30 1	810117	11 370	1	08 04 04	33 183 N	118 183 W	1	1	1	2	2	10
36	7		30 2	810117	11 370	1	08 04 04	33 183 N	118 183 W	1	1	2	2	2	10
36	7		32 1	810117	11 382	1	08 04 05	33 176 N	118 204 W	1	2	3	2	2	09
36	25		33 1	810117	11 410	1	08 04 05	33 190 N	118 256 W	1	1	3	2	2	09
36	10		38 1	810117	11 480	1	08 04 07	33 255 N	118 325 W	1	1	3	3	2	09
36	6		39 1	810117	11 490	1	08 04 07	33 257 N	118 342 W	1	2	1	3	2	09
36	12		10 1	810223	12 020	1	09 03 05	33 265 N	118 354 W	1	2	3	3	1	06
36	6		13 1	810223	12 039	1	09 03 05	33 295 N	118 380 W	1	1	1	3	1	06
36	12		13 2	810223	12 039	1	09 03 05	33 295 N	118 380 W	1	1	2	3	1	06
36	6		14 1	810223	12 090	1	09 04 01	33 290 N	118 346 W	1	2	2	2	1	03
36	15		15 1	810223	12 149	1	09 04 02	33 248 N	118 220 W	1	2	1	3	1	02
36	7		21 1	810223	12 310	1	09 04 07	33 255 N	118 325 W	1	2	1	3	1	11
36	2		22 1	810223	12 319	1	09 04 07	33 257 N	118 342 W	1	2	1	3	1	11
36	13		22 2	810223	12 319	1	09 04 07	33 257 N	118 342 W	1	2	2	3	1	11
36	3		23 1	810223	12 321	1	09 04 08	33 257 N	118 342 W	1	1	2	3	1	07

e 8. continued

ne al ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Short-finned pilot whale (Globicephala macrorhynchus)								
	2		23 2	810223	12 321	1	09 04 08	33 257 N	118 342 W	1	1	3	3	1	07
	3		24 1	810223	12 330	1	09 04 08	33 271 N	118 352 W	1	2	1	3	1	07
	8		25 1	810223	12 330	1	09 04 08	33 271 N	118 352 W	1	1	3	3	1	07
	4		26 1	810223	12 330	1	09 04 08	33 271 N	118 352 W	1	2	1	3	1	07
	5		27 1	810223	12 330	1	09 04 08	33 271 N	118 352 W	1	2	1	3	1	07
	9		17 1	810224	10 160	1	10 03 02	33 255 N	118 223 W	1	2	2	1	2	01
	9		23 1	810224	10 360	1	10 03 05	33 255 N	118 346 W	1	2	3	1	5	13
	4		24 1	810224	10 470	1	10 04 02	33 262 N	118 244 W	1	1	2	2	5	13
	3		25 1	810224	10 479	1	10 04 02	33 248 N	118 220 W	1	2	3	2	5	13
	22		26 1	810224	10 479	1	10 04 02	33 248 N	118 220 W	1	1	1	2	5	13
	2		28 1	810224	11 040	1	10 04 07	33 255 N	118 325 W	1	2	3	2	5	13
	45		29 1	810224	11 049	1	10 04 07	33 257 N	118 342 W	1	1	1	2	5	13
	8		31 1	810224	11 060	1	10 04 08	33 274 N	118 356 W	1	2	2	2		
	8		32 1	810224	11 060	1	10 04 08	33 274 N	118 356 W	1	2	2	2		
	12		33 1	810224	11 060	1	10 04 08	33 274 N	118 356 W	1	1	1	2		
	10		34 1	810224	11 060	1	10 04 08	33 274 N	118 356 W	1	1	2	2		
	26		20 1	810226	10 321	1	11 03 04	33 175 N	118 223 W	1	1	1	3	2	06
	10		27 1	810226	10 480	1	11 04 01	33 290 N	118 340 W	1	2	2	3	2	03
	3		29 1	810226	10 489	1	11 04 01	33 290 N	118 322 W	1	1	1	3	2	03
	8		34 1	810226	11 050	1	11 04 05	33 184 N	118 236 W	1	1	1	2	1	07
	6		34 2	810226	11 050	1	11 04 05	33 184 N	118 236 W	1	1	2	2	1	07
	10		35 1	810226	11 079	1	11 04 05	33 195 N	118 296 W	1	2	1	2	1	07
	16		35 2	810226	11 079	1	11 04 05	33 195 N	118 296 W	1	2	2	2	1	07
	4		35 3	810226	11 079	1	11 04 05	33 195 N	118 296 W	1	2	3	2	1	07
	15		12 1	810227	09 450	1	12 01 05	33 224 N	118 373 W	1	1	2	2	2	05
	1		13 1	810227	09 460	1	12 01 05	33 241 N	118 385 W	1	1	1	2	2	05
	10		37 1	810227	11 020	1	12 03 05	33 255 N	118 346 W	1	1	2	2	1	05
	3		46 1	810227	11 099	1	12 04 01	33 290 N	118 322 W	1	2	2	2	1	03
	3		47 1	810227	11 099	1	12 04 01	33 290 N	118 322 W	1	2	2	2	1	03
	12		48 1	810227	11 110	1	12 04 02	33 282 N	118 302 W	1	2	3	2	1	03
	22		19 1	810323	13 530	1	13 04 02	33 282 N	118 302 W	1	1	1	3	1	03
	8		20 1	810323	13 530	1	13 04 02	33 282 N	118 302 W	1	2	1	3	1	03
	10		12 1	810324	10 451	1	14 03 01	33 295 N	118 380 W	1	2	2	2	1	02
	3		19 1	810324	11 120	1	14 03 05	33 282 N	118 365 W	1	1	2	2	1	05
	6		25 1	810324	11 340	1	14 04 05	33 192 N	118 273 W	1	1	3	1	1	06
	2		17 1	810325	11 470	1	15 02 02	33 281 N	118 242 W	1	2	2	2	1	02
	2		22 1	810325	12 419	1	15 03 04	33 191 N	118 300 W	1	2	2	3	1	10
	6		25 1	810325	13 188	1	15 04 08	33 290 N	118 369 W	1	1	2	2	1	08
	8		01 1	821213	11 280	1	16 01 03	33 164 N	118 131 W	1	2	1	2	2	10
	2		06 1	821213	12 080	1	16 02 02	33 265 N	118 203 W	1	1	1	2	2	02
	2		06 2	821213	12 080	1	16 02 02	33 265 N	118 203 W	1	1	2	2	2	02
	2		11 1	821213	12 210	1	16 02 04	33 154 N	118 201 W	1	2	1	2	2	09
	6		01 1	821214	11 112	1	17 01 02	33 281 N	118 184 W	1	1	2	1	2	01

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Short-finned pilot whale (Globicephala macrorhynchus)								
36	1		01 2	821214	11 112	1	17 01 02	33 281 N	118 184 W	1	1	3	1	2	01
36	4		22 1	821214	12 246	1	17 02 04	33 163 N	118 241 W	1	2	3	1	2	09
36	8		30 1	821214	13 077	1	17 03 04	33 176 N	118 233 W	1	1	3	1	2	09
36	20		31 1	821214	13 116	1	17 03 04	33 183 N	118 263 W	1	1	3	1	2	09
36	20		34 1	821215	13 085	1	18 19 01	33 147 N	118 208 W	1	2	1	1	2	12
36	30		47 1	821215	13 278	1	18 22 01	33 173 N	118 249 W	1	2	2	1	2	12
36	21		58 1	821215	13 532	1	18 26 01	33 216 N	118 295 W	1	1	1	1	2	06
36	20		36 1	821216	13 351	1	19 25 01	33 193 N	118 301 W	1	1	1	3	2	11
36	3		37 1	821216	13 573	1	19 28 01	33 207 N	118 354 W	1	1	1	3	2	06
36	1		07 1	821217	10 565	1	20 10 01	33 268 N	118 213 W	1	2	1	2	3	10
36	21		30 1	821217	12 374	1	20 23 01	33 183 N	118 262 W	1	1	2	3	2	11
36	2		33 1	821217	12 547	1	20 25 01	33 173 N	118 324 W	1	1	1	2	2	11
36	4		34 1	821217	13 108	1	20 27 01	33 200 N	118 344 W	1	2	1	3	2	11
36	1		35 1	821217	13 113	1	20 27 01	33 194 N	118 352 W	1	2	1	3	2	11
36	5		36 1	821217	13 115	1	20 27 01	33 192 N	118 355 W	1	1	1	3	2	11
36	17		10 1	830203	10 558	1	21 03 01	33 257 N	118 403 W	1	1	1	2	2	03
36	2		16 1	830203	11 134	1	21 05 01	33 287 N	118 318 W	1	1	1	2	2	03
36	1		16 2	830203	11 134	1	21 05 01	33 287 N	118 318 W	1	1	2	2	2	03
36	1		17 1	830203	11 135	1	21 05 01	33 288 N	118 317 W	1	2	1	2	2	03
36	8		19 1	830203	11 142	1	21 05 01	33 295 N	118 310 W	1	1	2	2	2	03
36	8		20 1	830203	11 142	1	21 05 01	33 295 N	118 310 W	1	2	1	2	2	03
36	1		45 1	830203	12 308	1	21 17 01	33 121 N	118 183 W	1	1	1	2	2	04
36	8		67 1	830203	13 241	1	21	33 177 N	118 267 W	2			2	2	
36	17		68 1	830203	13 275	1	21 23 01	33 172 N	118 271 W	1	1	1	2	2	12
36	3		73 1	830203	13 367	1	21 24 01	33 180 N	118 283 W	1	1	1	2	2	06
36	94		75 1	830203	13 398	1	21	33 196 N	118 284 W	2			2	2	
36	5		05 1	830204	11 174	1	22 07 01	33 287 N	118 271 W	1	2	2	3	2	04
36	6		07 1	830204	11 241	1	22 08 01	33 287 N	118 253 W	1	1	1	3	2	10
36	2		07 2	830204	11 241	1	22 08 01	33 287 N	118 253 W	1	1	2	3	2	10
36	2		12 1	830204	12 148	1	22 16 01	33 198 N	118 156 W	1	1	1	3	2	11
36	6		19 1	830204	13 056	1	22 21 01	33 176 N	118 225 W	1	2	1	3	5	13
36	14		14 1	830205	11 050	1	23	33 295 N	118 342 W	2			2	5	
36	5		15 1	830205	11 063	1	23	33 297 N	118 346 W	2			2	5	
36	13		26 1	830205	11 327	1	23 09 01	33 263 N	118 248 W	1	1	2	2	5	13
36	8		27 1	830205	11 360	1	23	33 259 N	118 258 W	2			2	5	
36	11		32 1	830205	12 040	1	23	33 225 N	118 209 W	2			3	5	
36	4		38 1	830205	12 401	1	23 17 01	33 119 N	118 188 W	1	2	3	2	5	13
36	20		57 1	830205	13 303	1	23 22 01	33 177 N	118 242 W	1	2	2	2	5	13
36	14		58 1	830205	13 320	1	23	33 172 N	118 250 W	2			2	5	
36	1		09 1	830206	10 530	1	24 04 02	33 294 N	118 340 W	1	2	1	2	5	13
36	8		11 1	830206	10 591	1	24	33 298 N	118 336 W	2			2	5	
36	3		14 1	830206	11 029	1	24 05 01	33 307 N	118 297 W	1	2	1	2	5	13
36	17		14 2	830206	11 029	1	24 05 01	33 307 N	118 297 W	1	2	3	2	5	13

8. continued

...e ...l ...es ...	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Short-finned pilot whale (Globicephala macrorhynchus)								
	17		18 1	830206	11 188	1	24 07 01	33 271 N	118 285 W	1	1	1	2	5	13
	15		25 1	830206	12 034	1	24 13 01	33 246 N	118 167 W	1	1	1	2	5	13
	15		27 1	830206	12 146	1	24 14 02	33 235 N	118 159 W	1	2	1	2	5	13
	12		29 1	841221	12 588	1	34 24 01	33 195 N	118 279 W	1	1	2	1	1	06
	8	34	20 1	850115	13 516	3	36 08 01	33 418 N	118 238 W	1	2	2	1	2	06
	29		17 1	850118	13 044	1	39 24 01	33 194 N	118 282 W	1	1	1	3	2	05
	21		18 1	850118	13 100	1	39	33 202 N	118 283 W	2			3	2	
	9	45	17 1	851216	13 440	1	40 24 01	33 195 N	118 280 W	1	2	1	1	2	06
	6		18 1	851216	13 456	1	40	33 193 N	118 271 W	2			1	2	
	15		14 1	851217	13 316	1	41	33 198 N	118 283 W	2			1	2	
							Killer whale (Orca orca)								
	18		03 1	840909	09 400	8	01 04 01	47 462 N	124 292 W	1	1	1	2	2	04
							Harbor porpoise (Phocoena phocoena)								
	5		02 1	840909	09 350	8	01 03 01	47 447 N	124 262 W	1	2	1	2	3	04
	2		05 1	840909	09 595	8	01 05 01	47 555 N	124 391 W	1	1	1	2	2	04
	4		12 1	840909	11 220	8	01 07 01	47 484 N	124 297 W	1	1	1	2	2	11
	2		13 1	840909	11 290	8	01 07 01	47 402 N	124 246 W	1	1	1	2	2	11
	2		14 1	840909	11 310	8	01 07 01	47 394 N	124 240 W	1	1	1	2	2	11
	1		15 1	840909	11 340	8	01 07 01	47 387 N	124 238 W	1	1	1	2	2	11
	2		17 1	840909	11 450	8	01 08 01	47 278 N	124 210 W	1	1	1	2	1	11
	2		18 1	840909	11 480	8	01 08 01	47 263 N	124 208 W	1	1	1	2	1	11
	1		19 1	840909	11 500	8	01 08 01	47 244 N	124 206 W	1	1	1	2	1	11
	2		21 1	840909	12 120	8	01 09 01	47 053 N	124 110 W	1	2	2	2	1	11
	1		23 1	840909	13 580	8	01 10 01	46 465 N	124 065 W	1	1	1	2	1	12
	1		24 1	840909	14 100	8	01 10 01	46 332 N	124 045 W	1	2	1	2	1	12
	2		25 1	840909	14 170	8	01 10 01	46 259 N	124 040 W	1	1	1	2	1	12
	2		26 1	840909	14 190	8	01 10 01	46 250 N	124 041 W	1	2	1	2	1	12
	1		27 1	840909	14 210	8	01 10 01	46 234 N	124 042 W	1	2	1	2	1	12
	3		28 1	840909	14 230	8	01 10 01	46 221 N	124 040 W	1	2	1	2	1	12
	3		33 1	840909	14 510	8	01 11 01	46 000 N	123 565 W	1	2	1	2	1	01
	2		36 1	840909	15 070	8	01 11 01	45 443 N	123 582 W	1	2	1	2	1	01
	2		37 1	840909	15 250	8	01 11 01	45 182 N	123 585 W	1	2	1	2	1	01
	1		42 1	840909	16 350	8	01 12 01	44 494 N	124 047 W	1	2	1	2	2	07
	1		43 1	840909	16 410	8	01 12 01	44 568 N	124 020 W	1	2	1	2	2	07
	1		44 1	840909	16 421	8	01 12 01	44 575 N	124 019 W	1	2	1	2	2	07

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
40	1		45 1	840909	16 450	8	01 12 01	44 582 N	124 018 W	1	2	1	2	2	07
40	1		50 1	840909	17 270	8	01 12 01	45 421 N	123 572 W	1	2	1	2	2	07
40	3		51 1	840909	17 330	8	01 12 01	45 468 N	123 587 W	1	2	1	2	2	07
40	2		01 1	840910	08 170	8	02 01 01	45 568 N	123 598 W	1	1	1	1	3	10
40	3		02 1	840910	08 220	8	02 01 01	45 506 N	123 583 W	1	2	1	1	3	10
40	2		03 1	840910	08 260	8	02 01 01	45 499 N	123 583 W	1	2	1	1	3	10
40	2		04 1	840910	08 280	8	02 01 01	45 489 N	123 584 W	1	2	1	1	3	10
40	3		04 2	840910	08 280	8	02 01 01	45 489 N	123 584 W	1	2	2	1	3	10
40	4		06 1	840910	08 370	8	02 02 01	45 361 N	123 573 W	1	1	1	1	3	10
40	2		08 1	840910	08 530	8	02 02 01	45 200 N	124 005 W	1	1	1	1	3	10
40	2		09 1	840910	08 590	8	02 02 01	45 160 N	123 585 W	1	1	1	1	3	10
40	1		10 1	840910	09 010	8	02 02 01	45 152 N	123 587 W	1	1	1	1	3	10
40	6		11 1	840910	09 050	8	02 02 01	45 118 N	123 590 W	1	2	1	1	3	10
40	3		12 1	840910	09 080	8	02 02 01	45 108 N	123 591 W	1	1	1	1	3	10
40	2		12 2	840910	09 080	8	02 02 01	45 108 N	123 591 W	1	1	2	1	3	10
40	2		16 1	840910	10 140	8	02 04 01	44 364 N	124 050 W	1	1	1	1	2	11
40	8		16 1	840910	10 140	8	02 04 01	44 364 N	124 050 W	1	1	1	1	2	11
40	3		17 1	840910	10 170	8	02 04 01	44 355 N	124 047 W	1	2	1	1	2	11
40	4		20 1	840910	10 220	8	02 04 01	44 335 N	124 052 W	1	2	1	1	2	11
40	3		21 1	840910	10 240	8	02 04 01	44 313 N	124 056 W	1	2	1	1	2	11
40	2		22 1	840910	10 270	8	02 04 01	44 272 N	124 056 W	1	2	1	1	2	11
40	4		22 2	840910	10 270	8	02 04 01	44 272 N	124 056 W	1	2	2	1	2	11
40	1		22 3	840910	10 270	8	02 04 01	44 272 N	124 056 W	1	2	2	1	2	11
40	2		22 4	840910	10 270	8	02 04 01	44 272 N	124 056 W	1	2	2	1	2	11
40	2		23 1	840910	10 300	8	02 04 01	44 253 N	124 057 W	1	1	1	1	2	11
40	3		24 1	840910	10 310	8	02 04 01	44 247 N	124 057 W	1	1	1	1	2	11
40	1		24 2	840910	10 310	8	02 04 01	44 247 N	124 057 W	1	1	2	1	2	11
40	1		28 1	840910	10 540	8	02 04 01	44 045 N	124 087 W	1	2	1	1	2	11
40	3		28 2	840910	10 540	8	02 04 01	44 045 N	124 087 W	1	2	2	1	2	11
40	2		30 1	840910	11 010	8	02 04 01	43 585 N	124 091 W	1	2	1	1	2	11
40	6		31 1	840910	11 030	8	02 04 01	43 575 N	124 093 W	1	1	1	1	2	11
40	2		31 2	840910	11 030	8	02 04 01	43 575 N	124 093 W	1	1	2	1	2	11
40	3		32 1	840910	11 060	8	02 04 01	43 567 N	124 095 W	1	2	1	1	2	11
40	2		33 1	840910	11 110	8	02 04 01	43 550 N	124 100 W	1	2	1	1	2	11
40	2		33 2	840910	11 110	8	02	43 550 N	124 100 W	1	2	2	1	2	11
40	2		33 3	840910	11 110	8	02	43 550 N	124 100 W	1	2	2	1	2	11
40	2		34 1	840910	11 160	8	02 05 01	43 511 N	124 105 W	1	2	1	2	1	11
40	3		35 1	840910	11 180	8	02 05 01	43 498 N	124 109 W	1	2	1	2	1	11
40	2		37 1	840910	11 230	8	02 05 01	43 468 N	124 112 W	1	1	1	2	1	11
40	3		39 1	840910	11 300	8	02 05 01	43 433 N	124 123 W	1	2	1	2	1	11
40	2		39 2	840910	11 300	8	02 05 01	43 433 N	124 123 W	1	2	1	2	1	11
40	2		39 3	840910	11 300	8	02 05 01	43 433 N	124 123 W	1	2	2	2	1	11
40	2		39 4	840910	11 300	8	02 05 01	43 433 N	124 123 W	1	2	2	2	1	11

e 8. continued

ne al ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								Harbor porpoise (Phocoena phocoena)							
	5		40 1	840910	11 330	8	02 05 01	43 430 N	124 126 W	1	2	1	2	1	11
	5		40 2	840910	11 330	8	02 05 01	43 430 N	124 126 W	1	2	2	2	1	11
	4		40 3	840910	11 330	8	02 05 01	43 430 N	124 126 W	1	2	2	2	1	11
	2		41 1	840910	11 360	8	02 05 01	43 417 N	124 128 W	1	2	1	2	1	11
	2		41 2	840910	11 360	8	02 05 01	43 417 N	124 128 W	1	1	1	2	1	11
	1		41 3	840910	11 360	8	02 05 01	43 417 N	124 128 W	1	1	2	2	1	11
	4		42 1	840910	11 420	8	02 06 01	43 356 N	124 143 W	1	2	1	3	1	11
	3		43 1	840910	11 450	8	02 06 01	43 335 N	124 149 W	1	2	1	3	1	11
	2		44 1	840910	11 470	8	02 06 01	43 307 N	124 160 W	1	2	1	3	1	11
	2		45 1	840910	11 510	8	02 06 01	43 279 N	124 174 W	1	2	1	3	1	11
	3		46 1	840910	11 550	8	02 06 01	43 262 N	124 182 W	1	2	1	3	1	11
	8		46 2	840910	11 550	8	02 06 01	43 262 N	124 182 W	1	2	2	3	1	11
	2		46 3	840910	11 550	8	02 06 01	43 262 N	124 182 W	1	2	2	3	1	11
	1		46 4	840910	11 550	8	02 06 01	43 262 N	124 182 W	1	2	2	3	1	11
	2		47 1	840910	12 010	8	02 06 01	43 246 N	124 191 W	1	1	1	3	1	11
	1		47 2	840910	12 010	8	02 06 01	43 246 N	124 191 W	1	1	2	3	1	11
	1		50 1	840910	12 210	8	02 07 01	42 587 N	124 291 W	1	2	1	4	1	11
	3		51 1	840910	12 230	8	02 07 01	42 571 N	124 302 W	1	2	1	4	1	11
	1		51 2	840910	12 230	8	02 07 01	42 571 N	124 302 W	1	2	2	4	1	11
	2		60 1	840910	13 110	8	02 09 01	43 208 N	124 222 W	1	1	1	4	1	05
	2		60 2	840910	13 110	8	02 09 01	43 208 N	124 222 W	1	1	2	4	1	05
	3		61 1	840910	14 370	8	02 10 01	43 239 N	124 194 W	1	2	1	4	4	06
	1		71 1	840910	16 380	8	02 13 01	45 377 N	123 573 W	1	2	1	2	2	08
	2		71 2	840910	16 380	8	02 13 01	45 377 N	123 573 W	1	2	2	2	2	08
	2		72 1	840910	16 420	8	02 13 01	45 421 N	123 569 W	1	2	1	2	2	08
	2		73 1	840910	16 450	8	02 13 01	45 433 N	123 571 W	1	2	1	2	2	08
	4		04 1	840911	08 550	8	03 02 01	43 437 N	124 121 W	1	1	1	2	3	09
	2		04 2	840911	08 550	8	03 02 01	43 437 N	124 121 W	1	2	2	2	3	09
	2		05 1	840911	09 000	8	03 02 01	43 384 N	124 136 W	1	2	1	2	3	09
	2		06 1	840911	09 020	8	03 02 01	43 365 N	124 140 W	1	2	1	2	3	09
	1		06 2	840911	09 020	8	03 02 01	43 365 N	124 140 W	1	2	2	2	3	09
	2		07 1	840911	09 070	8	03 03 01	43 346 N	124 147 W	1	2	1	1	3	09
	1		07 2	840911	09 070	8	03 03 01	43 346 N	124 147 W	1	2	2	1	3	09
	1		10 1	840911	09 130	8	03 03 01	43 297 N	124 163 W	1	2	1	1	3	09
	4		11 1	840911	09 160	8	03 03 01	43 287 N	124 168 W	1	2	1	1	3	09
	3		11 2	840911	09 160	8	03 03 01	43 287 N	124 168 W	1	2	2	1	3	09
	2		11 3	840911	09 160	8	03 03 01	43 287 N	124 168 W	1	2	2	1	3	09
	1		11 4	840911	09 160	8	03 03 01	43 287 N	124 168 W	1	2	2	1	3	09
	5		12 1	840911	09 220	8	03 03 01	43 271 N	124 174 W	1	2	1	1	3	09
	5		14 1	840911	09 250	8	03 03 01	43 263 N	124 180 W	1	2	1	1	3	09
	3		15 1	840911	09 270	8	03 03 01	43 251 N	124 187 W	1	2	1	1	3	09
	5		15 2	840911	09 270	8	03 03 01	43 251 N	124 187 W	1	2	2	1	3	09
	1		15 3	840911	09 270	8	03 03 01	43 251 N	124 187 W	1	2	2	1	3	09

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
40	2		16 1	840911	09 290	8	03 03 01	43 237 N	124 194 W	1	2	1	1	3	09
40	2		17 1	840911	09 320	8	03 04 01	43 222 N	124 205 W	1	2	1	1	3	09
40	4		18 1	840911	09 340	8	03 04 01	43 217 N	124 212 W	1	2	1	1	3	09
40	1		18 2	840911	09 340	8	03 04 01	43 217 N	124 212 W	1	2	2	1	3	09
40	2		18 3	840911	09 340	8	03 04 01	43 217 N	124 212 W	1	2	2	1	3	09
40	3		19 1	840911	09 370	8	03 04 01	43 215 N	124 216 W	1	2	1	1	3	09
40	7		19 2	840911	09 370	8	03 04 01	43 215 N	124 216 W	1	2	2	1	3	09
40	2		19 3	840911	09 370	8	03 04 01	43 215 N	124 216 W	1	2	2	1	3	09
40	2		19 4	840911	09 370	8	03 04 01	43 215 N	124 216 W	1	2	2	1	3	09
40	3		20 1	840911	09 410	8	03 04 01	43 177 N	124 242 W	1	2	1	1	3	09
40	2		20 2	840911	09 410	8	03 04 01	43 177 N	124 242 W	1	2	2	1	3	09
40	2		20 3	840911	09 410	8	03 04 01	43 177 N	124 242 W	1	2	2	1	3	09
40	1		21 1	840911	09 440	8	03 04 01	43 153 N	124 240 W	1	2	2	1	3	09
40	1		22 1	840911	09 480	8	03 04 01	43 127 N	124 247 W	1	1	1	1	3	09
40	2		22 2	840911	09 480	8	03 04 01	43 127 N	124 247 W	1	1	2	1	3	09
40	3		23 1	840911	09 510	8	03 04 01	43 098 N	124 257 W	1	2	1	1	3	09
40	4		24 1	840911	09 560	8	03 04 01	43 044 N	124 259 W	1	2	2	1	3	09
40	1		24 2	840911	09 560	8	03 04 01	43 044 N	124 259 W	1	2	2	1	3	09
40	1		25 1	840911	09 580	8	03 04 01	43 026 N	124 278 W	1	2	1	1	3	09
40	2		25 2	840911	09 580	8	03 04 01	43 026 N	124 278 W	1	2	2	1	3	09
40	1		26 1	840911	09 585	8	03 04 01	43 007 N	124 281 W	2			1	3	09
40	3		27 1	840911	10 000	8	03 04 01	42 582 N	124 291 W	1	2	1	1	3	09
40	4		28 1	840911	10 015	8	03 04 01	42 577 N	124 293 W	1	2	1	1	3	09
40	3		28 2	840911	10 015	8	03 04 01	42 577 N	124 293 W	1	2	2	1	3	09
40	2		28 3	840911	10 015	8	03 04 01	42 577 N	124 293 W	1	2	2	1	3	09
40	1		29 1	840911	10 030	8	03 04 01	42 573 N	124 296 W	1	2	1	1	3	09
40	3		30 1	840911	10 045	8	03 04 01	42 568 N	124 297 W	1	2	2	1	3	09
40	2		30 2	840911	10 045	8	03 04 01	42 568 N	124 297 W	1	2	2	1	3	09
40	2		31 1	840911	10 060	8	03 04 01	42 565 N	124 298 W	1	2	1	1	3	09
40	2		32 1	840911	10 080	8	03 04 01	42 563 N	124 300 W	1	2	1	1	3	09
40	2		32 2	840911	10 080	8	03 04 01	42 563 N	124 300 W	1	2	2	1	3	09
40	1		32 3	840911	10 080	8	03 04 01	42 563 N	124 300 W	1	2	2	1	3	09
40	2		32 4	840911	10 080	8	03 04 01	42 563 N	124 300 W	1	2	2	1	3	09
40	1		33 1	840911	10 095	8	03 04 01	42 553 N	124 305 W	1	2	1	1	3	09
40	2		33 2	840911	10 095	8	03 04 01	42 553 N	124 305 W	1	2	2	1	3	09
40	1		33 3	840911	10 095	8	03 04 01	42 553 N	124 305 W	1	2	2	1	3	09
40	2		34 1	840911	10 110	8	03 04 01	42 550 N	124 307 W	1	2	1	1	3	09
40	1		34 2	840911	10 110	8	03 04 01	42 550 N	124 307 W	1	2	2	1	3	09
40	11		35 1	840911	10 130	8	03 04 01	42 547 N	124 311 W	1	2	2	1	3	09
40	2		35 2	840911	10 130	8	03 04 01	42 547 N	124 311 W	1	2	2	1	3	09
40	1		35 3	840911	10 130	8	03 04 01	42 547 N	124 311 W	1	2	2	1	3	09
40	4		36 1	840911	10 190	8	03 04 01	42 523 N	124 331 W	1	1	1	1	3	09
40	2		37 1	840911	10 205	8	03 04 01	42 519 N	124 328 W	1	1	1	1	3	09

8. continued

ıe ıl es e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								Harbor porpoise (Phocoena phocoena)							
	2		37 2	840911	10 205	8	03 04 01	42 519 N	124 328 W	1	1	2	1	3	09
	1		37 3	840911	10 205	8	03 04 01	42 519 N	124 328 W	1	1	2	1	3	09
	1		37 4	840911	10 205	8	03 04 01	42 519 N	124 328 W	1	1	2	1	3	09
	2		38 1	840911	10 220	8	03 04 01	42 508 N	124 338 W	1	1	2	1	3	09
	1		39 1	840911	10 270	8	03 05 01	42 450 N	124 318 W	1	2	2	1	3	10
	3		41 1	840911	10 350	8	03 05 01	42 376 N	124 248 W	1	1	1	1	3	10
	3		42 1	840911	10 370	8	03 05 01	42 366 N	124 247 W	1	1	1	1	3	10
	3		42 2	840911	10 370	8	03 05 01	42 366 N	124 247 W	1	1	2	1	3	10
	1		42 3	840911	10 370	8	03 05 01	42 366 N	124 247 W	1	1	2	1	3	10
	2		43 1	840911	10 415	8	03 06 01	42 345 N	124 245 W	1	1	1	1	3	10
	1		43 2	840911	10 415	8	03 06 01	42 345 N	124 245 W	1	1	2	1	3	10
	2		44 1	840911	10 440	8	03 06 01	42 334 N	124 244 W	1	2	1	1	3	10
	2		44 2	840911	10 440	8	03 06 01	42 334 N	124 244 W	1	2	2	1	3	10
	2		45 1	840911	11 120	8	03 07 01	42 229 N	124 262 W	1	2	1	2	3	11
	2		45 2	840911	11 120	8	03 07 01	42 229 N	124 262 W	1	2	2	2	3	11
	1		45 3	840911	11 120	8	03 07 01	42 229 N	124 262 W	1	2	2	2	3	11
	3		46 1	840911	11 190	8	03 08 01	42 140 N	124 245 W	1	1	1	3	3	11
	1		47 1	840911	11 230	8	03 08 01	42 079 N	124 217 W	1	2	1	3	3	11
	2		47 2	840911	11 230	8	03 08 01	42 079 N	124 217 W	1	2	1	3	3	11
	2		48 1	840911	11 380	7	03 09 02	41 483 N	124 150 W	1	2	1	4	4	12
	1		49 1	840911	11 430	7	03 10 01	41 433 N	124 095 W	1	2	1	2	4	12
	1		49 1	840911	11 430	7	03 10 01	41 433 N	124 095 W	1	1	1	2	4	12
	2		50 1	840911	11 445	7	03 10 01	41 427 N	124 093 W	1	2	2	2	4	12
	2		50 2	840911	11 445	7	03 10 01	41 427 N	124 093 W	1	2	2	2	4	12
	1		50 3	840911	11 445	7	03 10 01	41 427 N	124 093 W	1	2	2	2	4	12
	2		51 1	840911	11 460	7	03 10 01	41 422 N	124 091 W	1	2	1	2	4	12
	2		53 1	840911	11 560	7	03 10 01	41 301 N	124 053 W	1	2	1	2	4	12
	2		53 2	840911	11 560	7	03 10 01	41 301 N	124 053 W	1	2	2	2	4	12
	2		53 3	840911	11 560	7	03 10 01	41 301 N	124 053 W	1	1	2	2	4	12
	1		53 4	840911	11 560	7	03 10 01	41 301 N	124 053 W	1	1	2	2	4	12
	1		55 1	840911	12 020	7	03 10 01	41 272 N	124 045 W	1	2	1	2	4	12
	2		55 2	840911	12 020	7	03 10 01	41 272 N	124 045 W	1	2	1	2	4	12
	4		55 3	840911	12 020	7	03 10 01	41 272 N	124 045 W	1	2	2	2	4	12
	1		56 1	840911	12 080	7	03 10 01	41 207 N	124 048 W	1	2	1	2	4	12
	1		57 1	840911	12 120	7	03 10 01	41 190 N	124 057 W	1	1	1	2	4	12
	1		58 1	840911	12 140	7	03 10 01	41 180 N	124 060 W	1	1	1	2	4	12
	1		59 1	840911	12 160	7	03 10 01	41 165 N	124 062 W	1	1	1	2	4	12
	1		59 2	840911	12 160	7	03 10 01	41 165 N	124 062 W	1	1	2	2	4	12
	1		60 1	840911	12 180	7	03 10 01	41 155 N	124 065 W	1	1	1	2	4	12
	2		60 2	840911	12 180	7	03 10 01	41 155 N	124 065 W	1	1	2	2	4	12
	2		61 1	840911	12 215	7	03 10 01	41 123 N	124 075 W	1	1	1	2	4	12
	1		61 2	840911	12 215	7	03 10 01	41 123 N	124 075 W	1	1	2	2	4	12
	1		62 1	840911	12 235	7	03 10 01	41 122 N	124 075 W	1	1	1	2	4	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
40	1		63 1	840911	12 250	7	03 10 01	41 114 N	124 078 W	1	1	1	2	4	12
40	1		63 2	840911	12 250	7	03 10 01	41 114 N	124 078 W	1	1	2	2	4	12
40	2		63 3	840911	12 250	7	03 10 01	41 114 N	124 078 W	1	1	2	2	4	12
40	1		64 1	840911	12 265	7	03 10 01	41 107 N	124 082 W	1	1	1	2	4	12
40	2		65 1	840911	12 280	7	03 10 01	41 094 N	124 098 W	1	1	1	2	4	12
40	1		67 1	840911	12 400	7	03 10 01	40 521 N	124 116 W	1	2	1	2	4	12
40	2		67 2	840911	12 400	7	03 10 01	40 521 N	124 116 W	1	2	2	2	4	12
40	1		68 1	840911	12 430	7	03 10 01	40 502 N	124 117 W	1	2	1	2	4	12
40	1		68 2	840911	12 430	7	03 10 01	40 502 N	124 117 W	1	2	1	2	4	12
40	2		68 3	840911	12 430	7	03 10 01	40 502 N	124 117 W	1	2	2	2	4	12
40	5		68 4	840911	12 430	7	03 10 01	40 502 N	124 117 W	1	2	2	2	4	12
40	2		68 5	840911	12 430	7	03 10 01	40 502 N	124 117 W	1	2	2	2	4	12
40	2		69 1	840911	12 450	7	03 10 01	40 488 N	124 125 W	1	2	1	2	4	12
40	1		69 2	840911	12 450	7	03 10 01	40 488 N	124 125 W	1	2	1	2	4	12
40	3		69 3	840911	12 450	7	03 10 01	40 488 N	124 125 W	1	2	2	2	4	12
40	2		69 4	840911	12 450	7	03 10 01	40 488 N	124 125 W	1	2	2	2	4	12
40	2		69 5	840911	12 450	7	03 10 01	40 488 N	124 125 W	1	2	2	2	4	12
40	3		70 1	840911	12 475	7	03 10 01	40 458 N	124 143 W	1	2	1	2	4	12
40	2		71 1	840911	12 485	7	03 10 01	40 442 N	124 155 W	1	2	1	2	4	12
40	1		72 1	840911	12 530	7	03 10 01	40 408 N	124 180 W	1	2	1	2	4	12
40	3		72 2	840911	12 530	7	03 10 01	40 408 N	124 180 W	1	2	1	2	4	12
40	3		72 3	840911	12 530	7	03 10 01	40 408 N	124 180 W	1	2	1	2	4	12
40	10		72 4	840911	12 530	7	03 10 01	40 408 N	124 180 W	1	2	2	2	4	12
40	3		74 1	840911	13 050	7	03 11 01	40 340 N	124 220 W	1	1	2	3	4	06
40	1		74 2	840911	13 050	7	03 11 01	40 340 N	124 220 W	1	1	2	3	4	06
40	2		75 1	840911	13 080	7	03 11 01	40 354 N	124 211 W	1	1	1	3	4	06
40	3		76 1	840911	13 130	7	03 11 01	40 406 N	124 182 W	1	1	1	3	4	06
40	3		78 1	840911	13 210	7	03 12 01	40 464 N	124 142 W	1	2	1	2	4	06
40	1		79 1	840911	13 230	7	03 12 01	40 469 N	124 138 W	1	2	1	2	4	06
40	1		80 1	840911	13 235	7	03 12 01	40 473 N	124 134 W	1	2	1	2	4	06
40	2		81 1	840911	13 240	7	03 12 01	40 484 N	124 127 W	1	1	1	2	4	06
40	1		82 1	840911	13 270	7	03 12 01	40 509 N	124 112 W	1	1	1	2	4	06
40	1		83 1	840911	15 240	7	03 13 01	41 022 N	124 080 W	1	1	1	3	2	08
40	4		85 1	840911	15 290	7	03 14 01	41 092 N	124 090 W	1	2	1	2	2	08
40	2		85 2	840911	15 290	7	03 14 01	41 092 N	124 090 W	1	2	1	2	2	08
40	2		85 3	840911	15 290	7	03 14 01	41 092 N	124 090 W	1	2	1	2	2	08
40	2		86 1	840911	15 295	7	03 14 01	41 097 N	124 087 W	2			2	2	08
40	2		86 2	840911	15 295	7	03 14 01	41 097 N	124 087 W	2			2	2	08
40	1		86 3	840911	15 295	7	03 14 01	41 097 N	124 087 W	2			2	2	08
40	2		86 4	840911	15 295	7	03 14 01	41 097 N	124 087 W	2			2	2	08
40	5		88 1	840911	15 340	7	03 14 01	41 130 N	124 072 W	1	2	1	2	2	08
40	1		89 1	840911	15 350	7	03 14 01	41 135 N	124 070 W	1	1	1	2	2	08
40	4		90 1	840911	15 360	7	03 14 01	41 138 N	124 069 W	1	1	1	2	2	08

8. continued

e l es	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								Harbor porpoise (Phocoena phocoena)					
	2		91 1	840911	15 380	7	03 14 01	41 172 N 124 060 W	1	2	1	2	2 08
	2		91 2	840911	15 380	7	03 14 01	41 172 N 124 060 W	1	2	2	2	2 08
	2		92 1	840911	15 400	7	03 14 01	41 193 N 124 054 W	1	1	1	2	2 08
	1		94 1	840911	16 355	8	03 17 01	42 260 N 124 265 W	1	1	1	2	2 08
	1		95 1	840911	16 560	8	03 17 01	42 525 N 124 327 W	1	1	2	2	2 08
	2		95 2	840911	16 560	8	03 17 01	42 525 N 124 327 W	1	1	2	2	2 08
	2		09 1	840913	08 410	7	04 02 01	35 082 N 120 388 W	1	2	1	2	3 04
	5		09 2	840913	08 410	7	04 02 01	35 082 N 120 388 W	1	2	1	2	3 04
	2		09 3	840913	08 410	7	04 02 01	35 082 N 120 388 W	1	2	1	2	3 04
	2		09 4	840913	08 410	7	04 02 01	35 082 N 120 388 W	1	2	1	2	3 04
	5		09 5	840913	08 410	7	04 02 01	35 082 N 120 388 W	1	1	2	2	3 04
	2		47 1	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	1	2	2 05
	10		47 2	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	1	2	2 05
	18		47 3	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	2	2	2 05
	2		47 4	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	2	2	2 05
	3		47 5	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	1	2	2	2 05
	5		47 6	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	1	2	2 05
	6		47 7	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	2	2	2 05
	4		47 8	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	2	2	2 05
	9		47 9	840913	10 380	7	04 07 01	36 500 N 121 484 W	1	2	1	2	2 05
	2		48 1	840913	10 440	7	04 07 01	36 519 N 121 489 W	1	2	2	2	2 05
	3		48 2	840913	10 440	7	04 07 01	36 519 N 121 489 W	1	2	2	2	2 05
	12		48 3	840913	10 440	7	04 07 01	36 519 N 121 489 W	1	2	2	2	2 05
	2		48 4	840913	10 440	7	04 07 01	36 519 N 121 489 W	1	2	2	2	2 05
	2		48 5	840913	10 440	7	04 07 01	36 519 N 121 489 W	1	2	2	2	2 05
	4		50 2	840913	12 530	7	04 10 01	37 048 N 122 165 W	1	1	1	2	4 06
	8		58 1	840913	14 120	7	04 13 01	38 198 N 123 045 W	1	1	2	2	1 07
	5		59 1	840913	14 290	7	04 13 01	38 358 N 123 218 W	1	1	1	2	1 07
	4		63 1	840913	14 540	7	04 14 01	38 598 N 123 421 W	1	2	1	2	2 08
	1		63 2	840913	14 542	7	04 14 01	38 598 N 123 421 W	2			2	2 08
	4		63 3	840913	14 542	7	04 14 01	38 598 N 123 421 W	2			2	2 08
	3		63 4	840913	14 542	7	04 14 01	38 598 N 123 421 W	2			2	2 08
	3		63 5	840913	14 542	7	04 14 01	38 598 N 123 421 W	2			2	2 08
	2		64 1	840913	14 570	7	04 14 01	39 032 N 123 419 W	1	2	1	2	2 08
	2		65 1	840913	14 590	7	04 14 01	39 050 N 123 426 W	1	1	1	2	2 08
	3		69 1	840913	16 100	7	04 15 01	39 386 N 123 474 W	1	1	1	2	2 08
	2		76 1	840913	16 360	7	04 16 01	40 026 N 124 050 W	1	2	1	2	2 10
	10		76 1	840913	16 360	7	04 16 01	40 026 N 124 050 W	1	2	1	2	2 10
	1		76 1	840913	16 360	7	04 16 01	40 026 N 124 050 W	1	2	1	2	2 10
	9		77 1	840913	16 370	7	04 16 01	40 038 N 124 052 W	1	2	2	2	2 10
	4		77 2	840913	16 370	7	04 16 01	40 038 N 124 052 W	1	2	2	2	2 10
	1		77 3	840913	16 370	7	04 16 01	40 038 N 124 052 W	1	2	2	2	2 10
	2		79 1	840913	16 430	7	04 16 01	40 068 N 124 091 W	1	2	1	2	2 10

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
40	4		80 1	840913	16 460	7	04 16 01	40 083 N	124 120 W	1	2	1	2	2	10
40	3		81 1	840913	16 490	7	04 16 01	40 102 N	124 142 W	1	1	2	2	2	10
40	3		81 2	840913	16 490	7	04 16 01	40 102 N	124 142 W	1	2	1	2	2	10
40	2		81 3	840913	16 490	7	04 16 01	40 102 N	124 142 W	1	2	3	2	2	10
40	1		82 1	840913	16 530	7	04 16 01	40 117 N	124 168 W	1	2	1	2	2	10
40	2		84 1	840913	16 550	7	04 16 01	40 126 N	124 182 W	1	2	1	2	2	10
40	2		85 1	840913	16 570	7	04 16 01	40 135 N	124 194 W	1	1	1	2	2	10
40	5		86 1	840913	17 010	7	04 17 01	40 168 N	124 219 W	1	1	2	3	2	09
40	2		89 1	840913	17 110	7	04 18 01	40 320 N	124 230 W	1	2	1	3	3	08
40	1		91 1	840913	17 170	7	04 18 01	40 367 N	124 205 W	1	1	1	3	3	08
40	1		93 1	840913	17 290	7	04 19 01	40 495 N	124 119 W	1	1	1	2	3	08
40	2		93 2	840913	17 290	7	04 19 01	40 495 N	124 119 W	1	1	3	2	3	08
40	1		93 3	840913	17 290	7	04 19 01	40 495 N	124 119 W	1	1	3	2	3	08
40	1		93 4	840913	17 290	7	04 19 01	40 495 N	124 119 W	1	1	3	2	3	08
40	2		01 1	840914	07 460	7	05 01 01	40 518 N	124 106 W	1	2	1	1	5	13
40	2		02 1	840914	07 500	7	05 01 01	40 508 N	124 112 W	1	2	1	1	5	13
40	2		03 1	840914	07 580	7	05 02 01	40 459 N	124 142 W	1	2	1	1	5	13
40	2		05 1	840914	08 130	7	05 02 01	40 297 N	124 236 W	1	1	1	1	5	13
40	3		06 1	840914	08 170	7	05 02 01	40 276 N	124 243 W	1	2	1	1	5	13
40	2		06 2	840914	08 170	7	05 02 01	40 276 N	124 243 W	1	2	3	1	5	13
40	4		08 1	840914	08 200	7	05 02 01	40 264 N	124 250 W	1	2	1	1	5	13
40	2		08 2	840914	08 200	7	05 02 01	40 264 N	124 250 W	1	2	1	1	5	13
40	3		09 1	840914	08 290	7	05 03 01	40 155 N	124 221 W	1	1	1	2	5	13
40	2		10 1	840914	08 320	7	05 03 01	40 123 N	124 179 W	1	1	1	2	5	13
40	4		11 1	840914	08 335	7	05 03 01	40 117 N	124 172 W	1	2	1	2	5	13
40	1		11 2	840914	08 335	7	05 03 01	40 117 N	124 172 W	1	2	1	2	5	13
40	3		12 1	840914	08 385	7	05 04 01	40 093 N	124 134 W	1	2	1	2	5	13
40	3		12 2	840914	08 385	7	05 04 01	40 093 N	124 134 W	1	1	1	2	5	13
40	4		13 1	840914	08 400	7	05 04 01	40 089 N	124 128 W	1	2	1	2	5	13
40	5		13 1	840914	08 400	7	05 04 01	40 089 N	124 128 W	1	2	1	2	5	13
40	1		14 1	840914	08 410	7	05 04 01	40 080 N	124 118 W	1	1	2	2	5	13
40	1		15 1	840914	08 570	7	05 05 01	39 488 N	123 512 W	1	1	2	2	5	13
40	1		16 1	840914	09 070	7	05 05 01	39 333 N	123 466 W	1	1	1	2	5	13
40	10		19 1	840914	09 340	7	05 07 01	39 033 N	123 421 W	1	1	1	2	2	10
40	6		19 2	840914	09 340	7	05 07 01	39 033 N	123 421 W	1	1	3	2	2	10
40	3		19 3	840914	09 340	7	05 07 01	39 033 N	123 421 W	1	2	1	2	2	10
40	3		19 4	840914	09 340	7	05 07 01	39 033 N	123 421 W	1	1	1	2	2	10
40	3		20 1	840914	09 370	7	05 07 01	39 006 N	123 422 W	1	2	1	2	2	10
40	11		20 2	840914	09 370	7	05 07 01	39 006 N	123 422 W	1	2	3	2	2	10
40	3		20 3	840914	09 370	7	05 07 01	39 006 N	123 422 W	1	2	3	2	2	10
40	5		21 1	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	1	2	2	10
40	6		21 2	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	1	2	2	10
40	5		21 3	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	1	2	2	10

8. continued

e l es	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								Harbor porpoise (Phocoena phocoena)							
	5		21 4	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	1	2	2	10
	3		21 5	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	2	2	2	10
	3		21 6	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	2	2	2	10
	4		21 7	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	2	2	2	10
	4		21 8	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	2	2	2	10
	4		21 9	840914	09 400	7	05 07 01	38 588 N	123 432 W	1	2	3	2	2	10
	3		22 1	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	1	2	2	10
	3		22 2	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	1	2	2	10
	4		22 3	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	1	2	2	10
	8		22 4	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	1	2	2	10
	8		22 5	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	3	2	2	10
	4		22 6	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	1	2	2	10
	8		22 7	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	1	2	2	10
	1		22 8	840914	09 425	7	05 07 01	38 585 N	123 433 W	1	1	1	2	2	10
	4		25 1	840914	09 570	7	05 08 01	38 469 N	123 338 W	1	2	1	2	1	10
	6		27 1	840914	10 130	7	05 09 01	38 304 N	123 150 W	1	2	1	2	1	12
	3		28 1	840914	11 170	7	05 10 01	38 184 N	123 022 W	1	1	1	2	1	12
	9		30 1	840914	11 330	7	05 11 01	38 025 N	123 000 W	1	2	1	2	1	12
	6		32 1	840914	11 410	7	05 12 01	38 013 N	122 547 W	1	2	2	1	1	12
	3		35 1	840914	12 250	7	05 13 01	37 122 N	122 250 W	1	2	2	2	4	12
	2		40 1	840914	12 530	7	05 14 01	36 508 N	121 493 W	1	1	1	2	4	12
	2		40 2	840914	12 530	7	05 14 01	36 508 N	121 493 W	1	1	1	2	4	12
	3		40 3	840914	12 530	7	05 14 01	36 508 N	121 493 W	1	1	1	2	4	12
	1		41 1	840914	12 545	7	05 14 01	36 504 N	121 490 W	1	1	1	2	4	12
	3		41 2	840914	12 545	7	05 14 01	36 504 N	121 490 W	1	2	2	2	4	12
	3		41 3	840914	12 545	7	05 14 01	36 504 N	121 490 W	1	2	2	2	4	12
	2		41 4	840914	12 545	7	05 14 01	36 504 N	121 490 W	1	2	2	2	4	12
	1		41 5	840914	12 545	7	05 14 01	36 504 N	121 490 W	1	2	2	2	4	12
	1		42 1	840914	12 570	7	05 14 01	36 490 N	121 482 W	1	1	1	2	4	12
	4		54 1	840914	14 190	7	05 18 01	35 040 N	120 385 W	1	2	1	3	1	01
	2		54 2	840914	14 190	7	05 18 01	35 040 N	120 385 W	1	2	1	3	1	01
	1		54 3	840914	14 190	7	05 18 01	35 040 N	120 385 W	1	2	2	3	1	01
	8		54 4	840914	14 190	7	05 18 01	35 040 N	120 385 W	1	2	3	3	1	01
	2		56 1	840914	14 370	7	05 19 01	34 382 N	120 387 W	1	2	2	3	1	03
	3		25 1	840917	10 154	7	06 06 01	36 365 N	121 531 W	1	2	2	1	1	03
	2		34 1	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	2	1	1	03
	4		34 2	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	2	1	1	03
	7		34 3	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	2	1	1	03
	6		34 4	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	2	1	1	03
	7		34 5	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	2	1	1	03
	5		34 6	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	2	1	1	03
	1		34 7	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	1	1	1	03
	7		34 8	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	3	1	1	03

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
40	12		34 9	840917	10 275	7	06 07 01	36 508 N	121 492 W	1	2	2	1	1	03
40	2		35 1	840917	10 315	7	06 07 01	36 520 N	121 499 W	1	2	2	1	1	03
40	9		36 1	840917	10 320	7	06 07 01	36 530 N	121 502 W	1	2	2	1	1	03
40	2		37 1	840917	10 340	7	06 07 01	36 542 N	121 517 W	1	1	1	1	1	03
40	14		47 1	840917	11 280	7	06 10 01	37 524 N	122 369 W	1	1	1	2	2	04
40	1		58 1	840917	14 390	7	06 17 01	39 474 N	123 512 W	1	1	1	2	1	07
40	4		59 1	840917	14 410	7	06 17 01	39 486 N	123 515 W	1	1	1	2	1	07
40	2		59 2	840917	14 410	7	06 17 01	39 486 N	123 515 W	1	1	1	2	1	07
40	4		59 3	840917	14 410	7	06 17 01	39 486 N	123 515 W	1	2	1	2	1	07
40	2		59 4	840917	14 410	7	06 17 01	39 486 N	123 515 W	1	1	2	2	1	07
40	2		59 5	840917	14 410	7	06 17 01	39 486 N	123 515 W	1	1	2	2	1	07
40	4		59 6	840917	14 410	7	06 17 01	39 486 N	123 515 W	1	1	3	2	1	07
40	3		59 7	840917	14 410	7	06 17 01	39 486 N	123 515 W	1	1	3	2	1	07
40	2		60 1	840917	14 470	7	06 17 01	39 543 N	123 565 W	1	1	1	2	1	07
40	1		62 1	840917	14 510	7	06 17 01	39 576 N	123 598 W	2			2	1	07
40	1		63 1	840917	14 530	7	06 17 01	39 587 N	124 008 W	1	2	1	2	1	07
40	5		64 1	840917	14 550	7	06 17 01	39 596 N	124 023 W	1	2	1	2	1	07
40	1		65 1	840917	14 580	7	06 17 01	40 004 N	124 034 W	1	2	1	2	1	07
40	4		66 1	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	1	1	2	1	07
40	4		66 2	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	1	2	2	1	07
40	1		66 3	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	2	1	2	1	07
40	4		66 4	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	1	2	2	1	07
40	5		66 5	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	1	2	2	1	07
40	4		66 6	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	1	2	2	1	07
40	2		66 7	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	1	2	2	1	07
40	2		66 8	840917	15 010	7	06 17 01	40 020 N	124 053 W	1	2	1	2	1	07
40	3		67 1	840917	15 110	7	06 17 01	40 098 N	124 148 W	1	2	1	2	1	07
40	2		67 2	840917	15 110	7	06 17 01	40 098 N	124 148 W	1	2	3	2	1	07
40	2		68 1	840917	15 135	7	06 17 01	40 107 N	124 155 W	1	2	1	2	1	07
40	4		70 1	840917	15 170	7	06 18 01	40 133 N	124 201 W	1	2	1	2	2	09
40	3		71 1	840917	15 240	7	06 19 01	40 212 N	124 225 W	1	2	1	4	2	09
40	5		04 1	840918	08 490	7	07 01 01	40 125 N	124 185 W	1	1	1	4	2	11
40	2		05 1	840918	08 531	7	07 02 01	40 096 N	124 135 W	1	1	1	2	2	11
40	3		05 2	840918	08 531	7	07 02 01	40 096 N	124 135 W	1	1	2	2	2	11
40	4		05 3	840918	08 531	7	07 02 01	40 096 N	124 135 W	1	1	1	2	2	11
40	6		05 4	840918	08 531	7	07 02 01	40 096 N	124 135 W	1	1	2	2	2	11
40	4		05 5	840918	08 531	7	07 02 01	40 096 N	124 135 W	1	1	1	2	2	11
40	4		05 6	840918	08 531	7	07 02 01	40 096 N	124 135 W	1	1	1	2	2	11
40	5		07 1	840918	08 570	7	07 02 01	40 079 N	124 119 W	1	2	1	2	2	11
40	8		08 1	840918	08 590	7	07 02 01	40 075 N	124 110 W	1	2	1	2	2	11
40	3		08 2	840918	08 590	7	07 02 01	40 075 N	124 110 W	1	2	1	2	2	11
40	5		09 1	840918	09 060	7	07 02 01	40 009 N	124 028 W	1	2	1	2	2	11
40	1		09 2	840918	09 060	7	07 02 01	40 009 N	124 028 W	1	2	1	2	2	11

8. continued

e l es	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
	4		10 1	840918	09 090	7	07 02 01	39 599 N	124 017 W	1	2	1	2	2	11
	2		10 2	840918	09 090	7	07 02 01	39 599 N	124 017 W	1	2	2	2	2	11
	4		12 1	840918	09 140	7	07 02 01	39 560 N	123 578 W	1	2	1	2	2	11
	8		12 2	840918	09 140	7	07 02 01	39 560 N	123 578 W	1	2	2	2	2	11
	1		12 3	840918	09 140	7	07 02 01	39 560 N	123 578 W	1	2	2	2	2	11
	3		14 1	840918	09 190	7	07 02 01	39 542 N	123 558 W	1	2	1	2	2	11
	5		15 1	840918	09 200	7	07 02 01	39 530 N	123 553 W	1	2	1	2	2	11
	3		15 2	840918	09 200	7	07 02 01	39 530 N	123 553 W	1	2	1	2	2	11
	5		18 1	840918	09 290	7	07 02 01	39 498 N	123 513 W	1	1	1	2	2	11
	1		18 2	840918	09 290	7	07 02 01	39 498 N	123 513 W	1	2	1	2	2	11
	4		19 1	840918	09 315	7	07 02 01	39 492 N	123 512 W	1	2	1	2	2	11
	3		19 2	840918	09 315	7	07 02 01	39 492 N	123 512 W	1	2	2	2	2	11
	3		21 1	840918	09 470	7	07 03 01	39 305 N	123 478 W	1	2	1	2	1	11
	1		21 2	840918	09 470	7	07 03 01	39 305 N	123 478 W	1	2	1	2	1	11
	2		23 1	840918	10 100	7	07 03 01	39 000 N	123 426 W	1	2	2	2	1	11
	1		24 1	840918	10 120	7	07 03 01	38 578 N	123 431 W	1	2	1	2	1	11
	2		24 2	840918	10 120	7	07 03 01	38 578 N	123 431 W	1	2	2	2	1	11
	5		24 3	840918	10 120	7	07 03 01	38 578 N	123 431 W	1	2	2	2	1	11
	2		24 4	840918	10 120	7	07 03 01	38 578 N	123 431 W	1	2	2	2	1	11
	3		24 5	840918	10 120	7	07 03 01	38 578 N	123 431 W	1	2	3	2	1	11
	1		24 6	840918	10 120	7	07 03 01	38 578 N	123 431 W	1	2	3	2	1	11
	2		27 1	840918	10 200	7	07 04 01	38 516 N	123 395 W	1	1	2	4	1	12
	6		29 1	840918	10 410	7	07 06 01	38 285 N	123 106 W	1	2	2	1	1	12
	2		29 2	840918	10 410	7	07 06 01	38 285 N	123 106 W	1	2	1	1	1	12
	2		29 3	840918	10 410	7	07 06 01	38 285 N	123 106 W	1	2	2	1	1	12
	6		30 1	840918	11 370	7	07 07 01	38 203 N	123 044 W	1	1	1	1	1	12
	4		30 2	840918	11 370	7	07 07 01	38 203 N	123 044 W	1	1	2	1	1	12
	2		30 3	840918	11 370	7	07 07 01	38 203 N	123 044 W	1	1	2	1	1	12
	5		32 1	840918	11 460	7	07 07 01	38 156 N	122 589 W	1	1	1	1	1	12
	4		33 1	840918	11 570	7	07 08 01	38 040 N	122 593 W	1	2	1	3	1	12
	4	42	25 1	850916	12 447	7	02 01 21	36 502 N	121 488 W	1	2	1	2	1	04
	5		26 1	850916	12 447	7	02 01 21	36 502 N	121 488 W	1	1	1	2	1	04
	1	32	27 1	850916	14 283	7	02 02 01	36 550 N	121 517 W	1	2	2	2	4	09
	5	34	33 1	850916	15 021	7	02 02 07	37 188 N	122 250 W	1	2	2	2	4	09
	3	33	36 1	850916	15 187	7	02 02 10	37 388 N	122 304 W	1	2	2	2	4	09
	6	38	02 1	850917	11 202	7	03 01 04	38 285 N	123 112 W	1	2	1	2	5	13
	3	42	04 1	850918	13 537	7	04 02 02	40 323 N	124 232 W	1	2	1	3	1	07
	2	31	05 1	850918	13 541	7	04 02 02	40 329 N	124 228 W	1	2	2	3	1	07
	2	42	06 1	850918	13 541	7	04 02 02	40 340 N	124 223 W	1	1	1	3	1	07
	2	48	07 1	850918	14 006	7	04 02 04	40 416 N	124 180 W	1	2	1	4	1	07
	4	42	10 1	850918	14 279	7	04 02 10	41 127 N	124 079 W	1	1	1	3	1	08
	1	33	14 1	850918	14 572	7	04 02 15	41 500 N	124 143 W	1	2	2	5	1	09
	2	34	15 1	850918	15 019	7	04 02 15	41 572 N	124 131 W	1	2	2	5	1	09

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
40	6		01 1	850919	09 535	7	06	40 144 N	124 239 W	2			2	1	
40	4		02 1	850919	09 546	7	06	40 135 N	124 214 W	2			2	1	
40	2		03 1	850919	09 550	7	06	40 137 N	124 215 W	2			2	1	
40	1		04 1	850919	09 550	7	06	40 136 N	124 223 W	2			2	1	
40	2		05 1	850919	09 557	7	06	40 128 N	124 220 W	2			2	1	
40	2		06 1	850919	09 582	7	06	40 105 N	124 184 W	2			2	1	
40	5		07 1	850919	09 583	7	06	40 105 N	124 181 W	2			2	1	
40	8		08 1	850919	09 589	7	06	40 113 N	124 184 W	2			2	1	
40	7		09 1	850919	09 594	7	06	40 106 N	124 186 W	2			2	1	
40	1	45	10 1	850919	10 050	7	06 01 01	40 110 N	124 179 W	1	1	1	2	1	05
40	1	50	11 1	850919	10 054	7	06 01 01	40 112 N	124 186 W	1	1	1	2	1	05
40	2	50	12 1	850919	10 057	7	06 01 01	40 116 N	124 190 W	1	1	1	2	1	05
40	4	56	13 1	850919	10 063	7	06 01 01	40 121 N	124 199 W	1	2	1	2	1	05
40	3	47	14 1	850919	10 064	7	06 01 01	40 122 N	124 200 W	1	2	1	2	1	05
40	1	44	15 1	850919	10 067	7	06 01 01	40 124 N	124 204 W	1	2	1	2	1	05
40	1	60	16 1	850919	10 073	7	06 01 01	40 131 N	124 214 W	1	1	1	2	1	05
40	1	35	17 1	850919	10 074	7	06 01 01	40 132 N	124 215 W	1	1	2	2	1	05
40	3	44	18 1	850919	10 077	7	06 01 01	40 134 N	124 216 W	1	2	1	2	1	05
40	6	29	19 1	850919	10 079	7	06 01 01	40 134 N	124 217 W	1	2	2	2	1	05
40	2	45	20 1	850919	10 083	7	06 01 01	40 141 N	124 222 W	1	1	1	2	1	05
40	6	29	21 1	850919	10 088	7	06 01 01	40 147 N	124 232 W	1	2	2	2	1	05
40	2	50	22 1	850919	10 146	7	06 01 03	40 230 N	124 248 W	1	1	1	3	1	04
40	1	50	23 1	850919	10 151	7	06 01 03	40 237 N	124 250 W	1	1	1	3	1	04
40	1	27	24 1	850919	10 163	7	06 01 03	40 251 N	124 267 W	1	1	2	3	1	04
40	1	20	26 1	850919	10 203	7	06 01 04	40 304 N	124 258 W	1	1	3	3	1	03
40	3	54	27 1	850919	10 251	7	06 01 06	40 375 N	124 225 W	1	2	1	2	1	03
40	2	40	01 1	850919	11 074	7	07 03 01	40 124 N	124 219 W	1	1	1	3	1	08
40	1	40	02 1	850919	11 395	7	07 07 01	40 088 N	124 152 W	1	1	1	2	1	08
40	4	39	01 1	850919	11 577	7	08 01 01	40 102 N	124 187 W	1	2	1	2	1	06
40	3	55	03 1	850919	12 122	7	08 01 04	40 275 N	124 284 W	1	2	1	3	1	05
40	1	47	04 1	850919	12 162	7	08 01 06	40 330 N	124 258 W	1	2	1	2	1	04
40	1	39	05 1	850919	12 164	7	08 01 06	40 331 N	124 257 W	1	2	1	2	1	04
40	1	45	06 1	850919	12 173	7	08 01 06	40 346 N	124 248 W	1	1	1	2	1	04
40	2	27	07 1	850919	12 173	7	08 01 06	40 348 N	124 247 W	1	2	2	2	1	04
40	2	47	08 1	850919	12 181	7	08 01 06	40 355 N	124 244 W	1	2	1	2	1	04
40	1	53	02 1	850919	15 071	7	09 10 01	40 461 N	124 194 W	1	2	1	2	4	06
40	1	44	03 1	850919	15 072	7	09 10 01	40 462 N	124 191 W	1	2	1	2	4	06
40	1	50	04 1	850919	15 075	7	09 10 01	40 463 N	124 190 W	1	1	1	2	4	06
40	2	50	05 1	850919	15 083	7	09 10 01	40 471 N	124 176 W	1	1	1	2	4	06
40	1	38	06 1	850919	15 085	7	09 10 01	40 472 N	124 174 W	1	2	1	2	4	06
40	2	36	07 1	850919	15 239	7	09 12 02	40 412 N	124 208 W	1	2	1	2	4	06
40	15	32	07 1	850920	12 336	7	10 01 18	37 367 N	122 310 W	1	2	2	2	1	12
40	12	36	08 1	850920	12 502	7	10 01 21	37 198 N	122 255 W	1	2	1	1	4	12

e 8. continued

ıe ıl ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
1	45		09 1	850920	12 502	7	10 01 21	37 198 N	122 255 W	1	1	1	1	4	12
18	35		12 1	850920	13 023	7	10 01 26	37 051 N	122 216 W	1	1	2	1	4	12
2	32		13 1	850920	13 228	7	10 01 38	36 524 N	121 512 W	1	1	2	3	1	02
2	50		14 1	850920	13 234	7	10 01 38	36 515 N	121 506 W	1	1	1	3	1	02
1			08 1	851004	12 090	8	11 02 03	47 115 N	124 183 W	1	2	2	2	1	12
1			10 1	851004	12 444	8	11 02 04	46 204 N	124 063 W	1	1	2	3	1	12
2			11 1	851004	12 450	8	11 02 04	46 201 N	124 063 W	1	1	1	3	1	12
2			12 1	851004	12 457	8	11 02 04	46 159 N	124 063 W	1	1	2	3	1	12
1			13 1	851004	12 470	8	11 02 04	46 175 N	124 063 W	1	1	1	3	1	12
1			14 1	851004	12 470	8	11 02 04	46 175 N	124 063 W	1	2	1	3	1	12
1			16 1	851004	14 105	8	11 03 06	44 554 N	124 034 W	1	2	2	3	1	12
12			02 1	851014	10 577	7	12 01 04	34 422 N	120 369 W	1	1	1	2	2	04
3	47		05 1	851014	11 132	7	12 01 08	34 591 N	120 396 W	1	2	1	2	2	05
4	40		06 1	851014	11 176	7	12 01 08	35 003 N	120 398 W	1	1	1	2	2	05
2			27 1	851014	11 568	7	12 01 14	35 368 N	121 097 W	1	1	1	1	2	06
3	45		30 1	851014	12 092	7	12 01 17	35 480 N	121 237 W	1	1	1	1	2	07
4	41		65 1	851014	13 100	7	12 01 30	36 398 N	121 522 W	1	2	1	3	2	06
1	44		66 1	851014	13 174	7	12 01 31	36 467 N	121 490 W	1	2	1	3	2	06
4			67 1	851014	13 185	7	12 01 31	36 467 N	121 490 W	2			3	2	06
3	47		68 1	851014	14 413	7	12 02 01	36 557 N	121 528 W	1	2	1	2	1	08
4	38		69 1	851014	14 413	7	12 02 01	36 557 N	121 528 W	1	2	1	2	1	08
1			70 1	851014	14 425	7	12 02 01	36 557 N	121 528 W	2			2	1	08
3	39		82 1	851014	15 573	7	12 02 23	38 024 N	123 005 W	1	2	1	1	2	07
2	45		84 1	851014	16 040	7	12 02 25	38 113 N	122 588 W	1	1	1	1	2	07
1	60		85 1	851014	16 091	7	12 02 26	38 160 N	122 599 W	1	2	1	1	2	09
1	34		07 1	851015	09 047	7	13 01 02	38 485 N	123 457 W	1	2	2	1	2	05
10	64		08 1	851015	09 097	7	13 01 03	38 519 N	123 454 W	1	2	1	1	2	05
2	54		09 1	851015	09 146	7	13 01 04	38 526 N	123 463 W	1	2	1	1	2	05
6			10 1	851015	09 148	7	13 01 04	38 528 N	123 464 W	2	2	3	1	2	05
2	49		12 1	851015	09 192	7	13 01 04	38 572 N	123 489 W	1	2	1	1	2	05
3	46		13 1	851015	09 230	7	13 01 05	39 006 N	123 463 W	1	2	1	1	2	03
2	50		14 1	851015	09 230	7	13 01 05	39 006 N	123 463 W	1	1	1	1	2	03
3	44		15 1	851015	09 258	7	13 01 05	39 013 N	123 464 W	1	2	1	1	2	03
2	38		16 1	851015	09 258	7	13 01 05	39 013 N	123 464 W	1	1	1	1	2	03
2	20		17 1	851015	09 293	7	13 01 06	39 049 N	123 466 W	1	1	3	1	2	04
4			18 1	851015	09 361	7	13 01 08	39 118 N	123 502 W	1	1	3	1	2	04
1	44		21 1	851015	09 504	7	13 01 09	39 334 N	123 497 W	1	2	1	1	2	05
2	40		22 1	851015	09 505	7	13 01 09	39 334 N	123 497 W	1	1	1	1	2	05
25			23 1	851015	09 505	7	13 01 09	39 334 N	123 497 W	1	2	2	1	2	05
50			23 2	851015	09 510	7	13 01 09	39 334 N	123 497 W	2	2	3	1	2	05
2	55		24 1	851015	09 585	7	13 01 09	39 380 N	123 503 W	1	1	1	1	2	05
7	47		25 1	851015	09 585	7	13 01 09	39 380 N	123 503 W	1	2	1	1	2	05
2	54		26 1	851015	09 585	7	13 01 09	39 380 N	123 503 W	1	1	1	1	2	05

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor porpoise (Phocoena phocoena)								
40	2	45	27 1	851015	10 005	7	13 01 10	39 413 N	123 509 W	1	1	1	1	2	05
40	10	25	28 1	851015	10 015	7	13 01 10	39 426 N	123 519 W	1	1	2	1	2	05
40	1		29 1	851015	10 020	7	13 01 10	39 425 N	123 517 W	2			1	2	05
40	2	51	30 1	851015	10 035	7	13 01 10	39 442 N	123 532 W	1	1	1	1	2	05
40	3	52	31 1	851015	10 037	7	13 01 10	39 442 N	123 532 W	1	2	1	1	2	05
40	3	55	32 1	851015	10 038	7	13 01 10	39 445 N	123 539 W	1	1	1	1	2	05
40	1	47	33 1	851015	10 064	7	13 01 10	39 457 N	123 535 W	1	1	1	1	2	05
40	1	49	34 1	851015	10 070	7	13 01 10	39 465 N	123 535 W	1	1	1	1	2	05
40	2	56	35 1	851015	10 071	7	13 01 10	39 469 N	123 536 W	1	2	1	1	2	05
40	3	35	36 1	851015	10 075	7	13 01 10	39 474 N	123 535 W	1	2	1	1	2	05
40	1	37	37 1	851015	10 136	7	13 01 11	39 551 N	123 595 W	1	2	1	1	2	05
40	3	30	38 1	851015	10 152	7	13 01 11	39 571 N	124 013 W	1	1	2	1	2	05
40	3		39 1	851015	10 155	7	13 01 11	39 577 N	124 018 W	1	1	2	1	2	05
40	11		40 1	851015	10 156	7	13 01 11	39 577 N	124 018 W	2			1	2	05
40	3	47	41 1	851015	10 200	7	13 01 11	39 573 N	124 023 W	1	2	1	1	2	05
40	4	39	42 1	851015	10 200	7	13 01 11	39 574 N	124 023 W	1	2	1	1	2	05
40	2	33	43 1	851015	10 258	7	13 01 12	40 044 N	124 080 W	1	2	2	1	1	05
40	5	44	44 1	851015	10 267	7	13 01 12	40 054 N	124 089 W	1	2	1	1	1	05
40	3		45 1	851015	10 268	7	13 01 12	40 054 N	124 089 W	2			1	1	05
40	1	30	46 1	851015	10 282	7	13 01 12	40 058 N	124 095 W	1	2	2	1	1	05
40	2	37	47 1	851015	10 288	7	13 01 12	40 064 N	124 104 W	1	2	1	1	1	05
40	2	45	48 1	851015	10 322	7	13 01 12	40 093 N	124 161 W	1	2	1	1	1	05
40	3		49 1	851015	10 339	7	13 01 12	40 096 N	124 169 W	2			1	1	05
40	5	27	50 1	851015	10 344	7	13 01 12	40 102 N	124 176 W	1	2	2	1	1	05
40	2	47	51 1	851015	10 344	7	13 01 12	40 103 N	124 176 W	1	1	1	1	1	05
40	23	29	52 1	851015	10 344	7	13 01 12	40 103 N	124 176 W	1	2	2	1	1	05
40	7		53 1	851015	10 367	7	13 01 12	40 107 N	124 171 W	2			1	1	05
40	3	63	54 1	851015	10 382	7	13 01 12	40 114 N	124 196 W	1	2	1	1	1	05
40	2	44	55 1	851015	10 388	7	13 01 12	40 121 N	124 206 W	1	1	1	1	1	05
40	2	31	56 1	851015	10 398	7	13 01 12	40 132 N	124 222 W	1	2	2	1	1	05
40	2	38	57 1	851015	10 400	7	13 01 12	40 134 N	124 223 W	1	2	1	1	1	05
40	1	54	58 1	851015	10 402	7	13 01 12	40 137 N	124 225 W	1	2	1	1	1	05
40	1	41	59 1	851015	10 409	7	13 01 12	40 145 N	124 235 W	1	2	1	1	1	05
40	2	34	62 1	851015	10 507	7	13 01 14	40 302 N	124 290 W	1	2	2	2	1	04
40	1	48	63 1	851015	10 511	7	13 01 14	40 305 N	124 286 W	1	2	1	2	1	04
40	2	58	65 1	851015	10 540	7	13 01 14	40 350 N	124 274 W	1	2	1	2	1	04
40	1	50	66 1	851015	10 545	7	13 01 14	40 357 N	124 269 W	1	2	1	2	1	04
40	2	61	68 1	851015	11 053	7	13 01 15	40 484 N	124 191 W	1	2	1	2	1	04
40	5	60	69 1	851015	11 054	7	13 01 15	40 488 N	124 188 W	1	2	1	2	1	04
40	11		70 1	851015	11 063	7	13 01 15	40 484 N	124 183 W	2			2	1	04
40	3	19	71 1	851015	11 095	7	13 01 15	40 497 N	124 178 W	1	1	3	2	1	04
40	4	55	73 1	851015	11 163	7	13 01 15	40 574 N	124 114 W	1	2	1	2	1	04
40	1	30	75 1	851015	11 202	7	13 01 15	41 021 N	124 110 W	1	2	2	2	1	04

e 8. continued

ne al ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								Harbor porpoise (Phocoena phocoena)							
	1		75 2	851015	11 202	7	13 01 15	41 021 N	124 110 W	1	2	1	2	1	04
	3		77 1	851015	11 222	7	13 01 15	41 033 N	124 115 W	2			2	1	04
	3	43	78 1	851015	11 300	7	13 01 18	41 153 N	124 113 W	1	1	1	2	1	04
	4	53	79 1	851015	11 358	7	13 01 18	41 240 N	124 081 W	1	2	1	2	1	04
	3	43	80 1	851015	11 387	7	13 01 19	41 281 N	124 077 W	1	2	1	2	1	05
	3	28	81 1	851015	11 399	7	13 01 19	41 303 N	124 079 W	1	2	2	2	1	05
	2	39	82 1	851015	11 422	7	13 01 19	41 337 N	124 091 W	1	2	1	2	1	05
	1	23	85 1	851015	11 453	7	13 01 19	41 382 N	124 101 W	1	1	2	2	1	05
	1	51	86 1	851015	11 470	7	13 01 19	41 405 N	124 112 W	1	1	1	2	1	05
	1	62	87 1	851015	11 475	7	13 01 19	41 412 N	124 116 W	1	2	1	2	1	05
	1		93 1	851015	12 069	7	13 01 22	42 028 N	124 267 W	2			2	1	06
								Dall's porpoise (Phocoenoides dalli)							
	1		12 1	801215	10 460	1	01 02 02	33 286 N	118 262 W	1	1	1	2	2	02
	2		10 1	801217	09 210	1	03 02 01	33 312 N	118 372 W	1	1	1	1	2	02
	1		08 1	801218	10 270	1	04 02 04	33 173 N	118 285 W	1	2	3	2	5	13
	5		02 1	810115	11 280	1	06 01 05	33 241 N	118 385 W	1	1	1	1	1	06
	5		02 2	810115	11 280	1	06 01 05	33 241 N	118 385 W	1	1	2	1	1	06
	10		03 1	810115	11 300	1	06 01 05	33 272 N	118 411 W	1	2	1	1	1	06
	10		08 1	810115	11 430	1	06 02 02	33 303 N	118 302 W	1	1	1	2	1	02
	3		12 1	810115	12 061	1	06 02 05	33 176 N	118 312 W	1	2	3	1	1	07
	2		07 1	810226	09 340	1	11 02 01	33 312 N	118 345 W	1	1	2	3	2	02
	2		15 1	810227	09 480	1	12 01 05	33 272 N	118 411 W	1	1	1	2	2	05
	1		01 1	810323	11 510	1	13 01 01	33 333 N	118 403 W	1	1	2	2	1	03
	1		09 1	810324	10 301	1	14 02 05	33 176 N	118 312 W	1	2	2	1	1	05
	2		11 1	810324	10 380	1	14 02 05	33 284 N	118 401 W	1	2	1	1	1	05
	1		15 1	810325	11 349	1	15 01 05	33 329 N	118 457 W	1	1	1	2	1	08
	1		39 1	821217	13 457	1	20 32 01	33 301 N	118 348 W	1	2	1	3	2	06
	3	33	30 1	831214	12 122	1	27 12 01	33 246 N	118 189 W	1	1	1	2	1	11
	1	64	06 1	850118	10 391	4	39 04 01	33 047 N	118 315 W	1	2	1	3	2	10
								Pygmy sperm whale (Kogia brevicops)							
	2		29 1	821215	12 524	1	18 18 01	33 172 N	118 087 W	1	2	1	1	2	11

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Unidentified beaked whale (Ziphiid)								
49	1		55 1	840913	13 150	7	04 10 01	37 307 N	122 312 W	1	1	2	2	4	06
							Gray whale (Eschrichtius robustus)								
69	1		02 1	801216	08 460	1	02 01 02	33 292 N	118 213 W	1	2	3	1	2	01
69	1		31 1	801216	10 170	1	02 03 02	33 243 N	118 190 W	1	2	1	1	2	02
69	1		06 1	810113	09 440	1	05 01 04	33 134 N	118 193 W	1	2	3	1	2	07
69	7		17 1	810113	10 290	1	05 02 04	33 164 N	118 246 W	1	2	1	1	2	07
69	1		18 1	810113	10 290	1	05 02 04	33 164 N	118 246 W	1	2	2	1	2	07
69	5		19 1	810113	10 290	1	05 02 04	33 164 N	118 246 W	1	2	2	1	2	07
69	3		25 1	810113	10 390	1	05 02 05	33 272 N	118 390 W	1	1	1	1	2	06
69	2		32 1	810113	11 050	1	05 03 04	33 174 N	118 213 W	1	2	2	2	2	08
69	7		32 2	810113	11 050	1	05 03 04	33 174 N	118 213 W	1	2	3	2	2	08
69	1		34 2	810113	11 070	1	05 03 04	33 182 N	118 245 W	1	1	1	2	2	08
69	2		43 1	810113	11 150	1	05 03 05	33 255 N	118 346 W	1	1	1	1	2	07
69	1		52 1	810113	11 350	1	05 04 05	33 184 N	118 236 W	1	1	1	1	2	08
69	4		10 1	810115	12 040	1	06 02 04	33 173 N	118 291 W	1	1	2	1	1	08
69	4		17 1	810115	12 220	1	06 03 01	33 295 N	118 351 W	1	1	3	1	1	03
69	3		26 1	810115	12 531	1	06 04 01	33 290 N	118 369 W	1	2	3	1	1	03
69	1		35 1	810115	13 191	1	06 04 08	33 257 N	118 342 W	1	2	3	1	1	08
69	1		09 1	810116	10 020	1	07 01 05	33 241 N	118 385 W	1	2	2	1	2	06
69	2		20 1	810116	10 360	1	07 02 04	33 161 N	118 225 W	1	2	2	1	2	08
69	2		21 1	810116	10 370	1	07 02 04	33 164 N	118 246 W	1	2	3	1	2	08
69	3		25 1	810116	11 020	1	07 03 02	33 262 N	118 233 W	1	1	2	1	2	02
69	2		26 1	810116	11 050	1	07 03 02	33 234 N	118 165 W	1	1	1	1	2	02
69	6		27 1	810116	11 090	1	07 03 03	33 195 N	118 162 W	1	1	3	1	1	11
69	1		29 1	810116	11 130	1	07 03 04	33 174 N	118 213 W	1	2	2	1	1	08
69	2		44 1	810116	11 311	1	07 04 02	33 290 N	118 322 W	1	2	3	1	1	02
69	1		49 1	810116	11 420	1	07 04 04	33 183 N	118 183 W	1	2	2	1	1	11
69	2		01 1	810117	09 359	1	08 01 02	33 242 N	118 088 W	1	1	2	3	2	01
69	2		03 1	810117	09 520	1	08 01 04	33 161 N	118 304 W	1	2	1	3	2	07
69	2		11 1	810117	10 360	1	08 02 04	33 173 N	118 291 W	1	2	2	2	2	07
69	1		21 1	810117	11 139	1	08 03 04	33 191 N	118 300 W	1	2	1	2	2	08
69	1		25 1	810117	11 200	1	08 03 05	33 262 N	118 352 W	1	2	2	3	2	06
69	3		09 1	810223	12 000	1	09 03 05	33 234 N	118 332 W	1	1	2	3	1	06
69	3		12 1	810223	12 030	1	09 03 05	33 282 N	118 365 W	1	2	3	3	1	06

8. continued

Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
						Gray whale (Eschrichtius robustus)								
2		18 1	810223	12 220	1	09 04 05	33 182 N	118 223 W	1	1	1	4	1	09
4		07 1	810224	09 380	1	10 02 02	33 255 N	118 181 W	1	1	2	1	2	01
1		08 1	810224	09 400	1	10 02 02	33 242 N	118 141 W	1	1	2	1	2	01
2		10 1	810224	09 541	1	10 02 05	33 176 N	118 312 W	1	2	3	1	5	13
1		13 1	810224	10 020	1	10 02 05	33 284 N	118 401 W	1	1	2	1	5	13
3		22 1	810224	10 320	1	10 03 05	33 203 N	118 306 W	1	1	2	1	5	13
2		22 2	810224	10 320	1	10 03 05	33 203 N	118 306 W	1	1	3	1	5	13
3		03 1	810226	09 240	1	11 01 05	33 285 N	118 423 W	1	1	2	3	2	05
1		11 1	810226	09 500	1	11 02 03	33 162 N	118 155 W	1	1	3	3	2	10
1		22 1	810226	10 351	1	11 03 05	33 191 N	118 300 W	1	1	1	3	2	05
2		23 1	810226	10 380	1	11 03 05	33 231 N	118 326 W	1	1	1	3	2	05
2		25 1	810226	10 380	1	11 03 05	33 231 N	118 326 W	1	1	3	3	2	05
5		30 1	810226	10 531	1	11 04 02	33 290 N	118 322 W	1	2	3	3	1	02
2		05 1	810227	09 230	1	12 01 02	33 265 N	118 153 W	1	2	2	2	2	01
1		33 1	810227	10 500	1	12 03 03	33 185 N	118 165 W	1	1	2	2	1	11
3		16 1	810323	13 430	1	13 03 05	33 251 N	118 343 W	1	2	1	2	1	09
1		05 1	810324	09 580	1	14 01 05	33 316 N	118 446 W	1	2	2	2	2	05
1		18 1	810324	11 070	1	14 03 05	33 204 N	118 311 W	1	1	3	2	1	05
1		19 1	810325	12 140	1	15 02 05	33 274 N	118 392 W	1	2	1	2	1	08
1		22 1	821213	13 310	1	16 04 02	33 273 N	118 281 W	1	1	2	2	2	03
1		01 1	830203	10 410	1	21	33 371 N	118 322 W	2			3	2	
1		09 1	830203	10 555	1	21 03 01	33 255 N	118 406 W	1	1	2	2	2	03
2		11 1	830203	10 560	1	21 03 01	33 259 N	118 400 W	1	2	3	2	2	03
1		42 1	830203	12 228	1	21 16 01	33 176 N	118 177 W	1	2	3	2	2	11
4		44 1	830203	12 253	1	21 16 01	33 147 N	118 210 W	1	1	3	2	2	11
2		81 1	830203	14 073	1	21 28 01	33 223 N	118 332 W	1	1	1	2	2	06
1		83 1	830203	14 192	1	21 30 01	33 239 N	118 367 W	1	1	2	2	2	06
2		06 1	830204	11 186	1	22 07 01	33 301 N	118 257 W	1	1	1	3	2	04
2		09 1	830204	12 031	1	22 14 01	33 212 N	118 184 W	1	1	2	3	2	11
1		22 1	830204	13 224	1	22	33 145 N	118 342 W	2			3	2	
1		04 1	830205	10 392	1	23 02 02	33 307 N	118 400 W	1	2	3	2	2	10
2		10 1	830205	10 577	1	23	33 342 N	118 307 W	2			2	2	
3		55 1	830205	13 296	1	23 22 01	33 174 N	118 244 W	1	1	3	2	5	13
2		64 1	830205	13 470	1	23 25 01	33 197 N	118 301 W	1	1	2	2	5	13
4		43 1	830206	13 339	1	24 22 01	33 175 N	118 248 W	1	1	2	2	5	13
3		51 1	830206	14 019	1	24 26 01	33 206 N	118 310 W	1	2	3	2	5	13
1		56 1	830206	14 352	1	24 31 02	33 252 N	118 387 W	1	1	3	2	2	12
2		58 1	830206	14 422	1	24 32 01	33 261 N	118 398 W	1	1	3	2	2	06
2	55	07 1	840109	12 123	1	28 07 01	33 323 N	118 230 W	1	1	1	2	2	04
1	21	11 1	840109	13 005	1	28 14 01	33 217 N	118 179 W	1	2	2	2	2	11
6	30	15 1	840109	14 232	1	28 24 01	33 171 N	118 308 W	1	2	2	3	2	06
4		16 1	840109	14 235	1	28 24 01	33 176 N	118 303 W	1	2	3	3	2	06
1	36	17 1	840109	14 404	1	28 27 01	33 234 N	118 310 W	1	1	1	3	2	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Gray whale (Eschrichtius robustus)								
69	1	37	03 1	840110	11 142	1	29 02 01	33 324 N	118 375 W	1	1	2	3	2	10
69	3		05 1	840110	11 160	1	29 02 01	33 305 N	118 398 W	1	1	2	3	2	10
69	6		20 1	840110	11 500	1	29	33 317 N	118 251 W	2			2	2	
69	2	39	24 1	840110	11 597	1	29 07 01	33 316 N	118 241 W	1	1	2	2	2	05
69	2	14	26 1	840110	12 063	1	29 08 01	33 266 N	118 268 W	1	1	3	2	2	11
69	3	30	32 1	840110	13 019	1	29 16 01	33 131 N	118 226 W	1	2	2	3	2	11
69	3	22	36 1	840110	13 200	1	29 18 01	33 149 N	118 110 W	1	2	3	2	2	11
69	1	23	37 1	840110	13 233	1	29 18 01	33 111 N	118 152 W	1	2	3	2	2	11
69	1	27	38 1	840110	13 428	1	29 20 01	33 170 N	118 204 W	1	2	2	3	2	06
69	2	34	40 1	840110	13 550	1	29 22 01	33 178 N	118 248 W	1	1	2	3	2	06
69	3	53	41 1	840110	14 104	1	29 25 01	33 196 N	118 304 W	1	2	1	3	2	12
69	1		43 1	840110	14 400	1	29	33 217 N	118 403 W	2			2	2	
69	1		01 1	840111	10 362	1	30	33 374 N	118 143 W	2			3	2	
69	2		02 1	840111	10 420	1	30	33 227 N	118 335 W	2			3	2	
69	9		10 1	840111	11 418	1	30	33 343 N	118 291 W	2			1	2	
69	2	17	11 1	840111	11 449	1	30 06 01	33 308 N	118 270 W	1	2	3	1	2	11
69	1	43	20 1	840111	12 526	1	30 16 02	33 187 N	118 166 W	1	2	1	1	2	11
69	7	32	23 1	840111	12 571	1	30 16 03	33 130 N	118 228 W	1	1	1	2	2	11
69	6	14	34 1	840111	13 395	1	30 20 01	33 157 N	118 220 W	1	1	3	2	2	06
69	2	44	35 1	840111	13 460	1	30 21 01	33 151 N	118 258 W	1	2	1	2	2	12
69	4	24	37 1	840111	13 563	1	30 23 01	33 169 N	118 285 W	1	1	2	2	2	12
69	2	45	38 1	840111	14 049	1	30 24 01	33 190 N	118 287 W	1	2	1	2	2	06
69	5		39 1	840111	14 130	1	30	33 168 N	118 359 W	2			2	2	
69	5	32	42 1	840111	14 225	1	30 27 01	33 223 N	118 324 W	1	1	2	2	2	12
69	4	33	43 1	840111	14 228	1	30 27 01	33 219 N	118 327 W	1	1	2	2	2	12
69	2	50	44 1	840111	14 229	1	30 27 01	33 217 N	118 330 W	1	2	1	2	2	12
69	5	30	46 1	840111	14 295	1	30 28 02	33 237 N	118 326 W	1	2	2	2	2	06
69	1	22	47 1	840111	14 326	1	30 29 01	33 246 N	118 344 W	1	2	2	2	2	12
69	1		51 1	840111	14 420	1	30	33 276 N	118 360 W	2			2	2	
69	2	26	03 1	840112	11 220	2	31 04 01	33 585 N	118 587 W	1	2	2	1	2	10
69	2	19	05 1	840112	11 296	2	31 05 01	34 005 N	118 538 W	1	1	3	2	2	04
69	1	19	09 1	840112	12 350	3	31 02 01	33 484 N	118 318 W	1	2	3	1	2	05
69	2	37	12 1	840112	13 183	3	31 08 01	33 433 N	118 243 W	1	1	2	1	2	05
69	1	28	15 1	840112	13 309	3	31 10 01	33 422 N	118 216 W	1	1	2	1	2	06
69	1		18 1	840112	13 466	3	31 12 01	33 406 N	118 189 W	1	2	3	1	2	06
69	2	20	19 1	840112	13 505	3	31 13 01	33 402 N	118 179 W	1	2	2	1	2	12
69	2		22 1	840112	13 594	3	31	33 392 N	118 172 W	2			1	2	
69	2	62	01 1	840113	10 400	4	32 02 01	33 047 N	118 400 W	1	1	1	3	2	10
69	1		05 1	840113	11 056	4	32	33 024 N	118 354 W	2			3	2	
69	2		06 1	840113	11 058	4	32	33 026 N	118 356 W	2			3	2	
69	1	16	10 1	840113	11 363	4	32 28 01	32 589 N	118 366 W	1	1	2	2	2	04
69	1		29 1	840909	14 280	8	01 10 01	46 147 N	124 054 W	1	2	2	2	1	12
69	1		41 1	840909	15 530	8	01 11 01	44 405 N	124 053 W	1	2	1	2	1	01

e 8. continued

ne al ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Gray whale (Eschrichtius robustus)								
	1		18 1	840910	10 172	8	02 04 01	44 355 N	124 047 W	2			1	2	11
	1		55 1	840910	12 370	8	02 07 01	42 433 N	124 285 W	1	1	2	4	1	11
	1		56 1	840910	12 430	8	02 08 01	42 440 N	124 312 W	1	2	2	5	1	11
	1		57 1	840910	12 580	8	02 09 01	43 048 N	124 269 W	1	2	1	4	1	05
	1		02 1	840911	08 115	8	03 01 01	44 357 N	124 051 W	2			1	3	09
	2		87 1	840911	15 320	7	03 14 01	41 117 N	124 077 W	1	1	1	2	2	08
	1		66 1	840913	15 030	7	04 14 01	39 103 N	123 455 W	1	2	2	2	2	08
	2	25	05 1	841221	10 250	1	34 03 01	33 268 N	118 392 W	1	1	2	1	2	04
	3		50 1	841221	14 208	5	34	33 252 N	118 593 W	2			1	2	
	2		01 1	850114	10 119	1	35	33 276 N	118 494 W	2			2	2	
	1		15 1	850114	10 489	1	35 04 01	33 306 N	118 317 W	1	2	2	2	2	10
	1		34 1	850114	12 517	1	35 21 01	33 141 N	118 266 W	1	2	2	2	1	11
	4		37 1	850114	13 169	1	35	33 161 N	118 359 W	2			2	1	
	8		40 1	850114	13 216	1	35 26 01	33 181 N	118 340 W	1	1	1	2	1	05
	3		55 1	850114	13 459	1	35 29 01	33 227 N	118 364 W	1	2	2	1	2	12
	2		61 1	850114	14 035	1	35 32 01	33 280 N	118 376 W	1	1	2	1	2	12
	1		63 1	850114	14 147	3	35	33 396 N	118 187 W	2			1	2	
	3		04 1	850115	10 533	1	36 04 01	33 327 N	118 302 W	1	1	2	1	2	10
	2	69	14 1	850115	12 172	1	36 17 01	33 145 N	118 161 W	1	2	1	2	2	05
	2		15 1	850115	12 370	1	36	33 121 N	118 173 W	2			2	2	
	1		18 1	850115	13 416	3	36 07 01	33 439 N	118 237 W	1	1	3	1	2	12
	1		05 1	850116	11 507	6	37 13 01	34 163 N	119 296 W	1	2	2	1	1	10
	1		10 1	850116	13 429	2	38	34 023 N	118 555 W	2			2	1	
	3		14 1	850116	14 022	2	38 07 01	33 555 N	118 541 W	1	2	2	2	2	06
	6	56	01 1	850118	10 183	4	39 02 01	33 065 N	118 376 W	1	2	1	2	2	10
	3	64	05 1	850118	10 341	4	39 03 01	33 064 N	118 323 W	1	1	1	2	2	04
	5	60	07 1	850118	10 414	4	39 04 01	33 024 N	118 342 W	1	1	1	3	2	10
	2		08 1	850118	10 496	4	39	33 070 N	118 265 W	2			2	2	
	2		12 1	850118	11 272	4	39	32 515 N	118 304 W	2			3	2	
	1	25	13 1	850118	11 405	4	39 19 01	32 473 N	118 256 W	1	2	2	3	2	04
	1	51	14 1	850118	11 485	4	39 18 02	32 466 N	118 241 W	1	2	1	3	2	11
	3	38	15 1	850118	11 569	4	39 16 02	32 446 N	118 213 W	1	2	2	3	2	05
	1	48	16 1	850118	12 444	1	39 21 02	33 148 N	118 258 W	1	2	1	3	2	11
	1	55	19 1	850118	13 158	1	39 25 01	33 195 N	118 306 W	1	1	1	2	2	11
	6	43	20 1	850118	13 192	1	39	33 156 N	118 346 W	2			2	2	
	1	36	21 1	850118	13 299	1	39 27 02	33 223 N	118 325 W	1	2	2	2	2	12
	1		23 1	850118	13 339	1	39 28 01	33 207 N	118 364 W	1	1	2	2	2	06
	1		24 1	850118	13 497	1	39 30 02	33 262 N	118 350 W	1	2	2	2	2	06
	1	35	01 1	850911	11 017	7	01 01 01	41 553 N	124 126 W	1	2	2	3	1	04
	1	55	11 1	850918	14 389	7	04 02 10	41 265 N	124 048 W	1	2	1	3	1	08
	1	54	13 1	850918	14 515	7	04 02 13	41 439 N	124 103 W	1	2	1	3	1	09
	1		18 1	851004	15 161	8	11 03 06	43 207 N	124 231 W	2			3	1	12
	1	14	67 1	851015	10 556	7	13 01 14	40 376 N	124 265 W	1	2	3	2	1	04

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								Minke whale (Balaenoptera acutorostrata or Balaenoptera bonaerensis)							
71	1		20 1	840917	09 260	7	06 05 01	36 316 N	121 566 W	1	2	1	1	1	07
71	1		12 1	850114	10 320	1	35 02 01	33 293 N	118 441 W	1	2	1	2	2	10
								Sei whale (Balaenoptera borealis)							
73	1		14 1	801215	11 059	1	01 02 04	33 176 N	118 312 W	1	1	2	1	2	08
73	4		21 1	821213	13 173	1	16 03 05	33 251 N	118 343 W	1	1	1	3	2	08
73	2		21 1	821216	12 227	1	19 16 02	33 154 N	118 203 W	1	1	3	1	2	10
73	3		22 1	821216	12 308	1	19 17 02	33 138 N	118 166 W	1	1	3	2	2	05
73	1		24 1	830206	12 023	1	24 13 01	33 234 N	118 178 W	1	1	2	2	5	13
73	1	30	28 1	831214	12 023	1	27 11 01	33 266 N	118 190 W	1	1	2	2	1	05
73	3		29 1	831214	12 081	1	27 12 01	33 265 N	118 167 W	1	1	3	2	1	11
								Unidentified dolphin or porpoise							
77	1		07 1	821213	12 090	1	16 02 02	33 261 N	118 185 W	1	1	1	2	2	02
77	2		07 2	821213	12 090	1	16 02 02	33 261 N	118 185 W	1	1	2	2	2	02
77	2		15 1	821213	12 520	1	16 03 02	33 282 N	118 284 W	1	1	1	2	2	03
77	4		03 1	821214	11 196	1	17 01 03	33 181 N	118 123 W	1	1	1	2	2	12
77	3		14 1	821214	12 045	1	17 02 02	33 273 N	118 222 W	1	1	1	1	2	02
77	10		15 1	821214	12 122	1	17 02 02	33 242 N	118 142 W	1	2	2	1	2	02
77	12		25 1	821214	12 537	1	17 03 02	33 264 N	118 244 W	1	1	1	1	2	02
77	1		36 1	821214	13 473	1	17 04 04	33 191 N	118 166 W	1	2	2	1	2	
77	6		03 1	821215	10 452	1	18 02 01	33 348 N	118 349 W	1	1	1	1	2	10
77	10		02 1	821216	10 308	1	19 01 02	33 341 N	118 400 W	1	2	1	1	2	03
77	20		03 1	821216	10 308	1	19 01 02	33 341 N	118 400 W	1	1	3	1	2	03
77	10		06 1	821216	10 443	1	19 02 02	33 267 N	118 443 W	1	2	1	2	2	10
77	33		07 1	821216	10 449	1	19 02 02	33 264 N	118 448 W	1	1	1	2	2	10
77	33		07 2	821216	10 449	1	19 02 02	33 264 N	118 448 W	1	1	2	2	2	10
77	33		07 3	821216	10 449	1	19 02 02	33 264 N	118 448 W	1	1	3	2	2	10
77	17		13 1	821216	11 315	1	19 09 01	33 263 N	118 245 W	1	1	1	1	2	04
77	11		13 2	821216	11 315	1	19 09 01	33 263 N	118 245 W	1	1	2	1	2	04
77	6		13 3	821216	11 315	1	19 09 01	33 263 N	118 245 W	1	1	3	1	2	04
77	10		14 1	821216	11 315	1	19 09 01	33 263 N	118 245 W	1	2	1	1	2	04

8. continued

e l es	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								Unidentified dolphin or porpoise					
	15		14 2	821216	11 315	1	19 09 01	33 263 N 118 245 W	1	2	2	1	2 04
	5		14 3	821216	11 315	1	19 09 01	33 263 N 118 245 W	1	2	3	1	2 04
	1		15 1	821216	11 355	1	19 09 01	33 305 N 118 198 W	1	1	2	1	2 04
	3		28 1	830203	11 257	1	21 07 01	33 274 N 118 283 W	1	2	1	2	2 10
	1		49 1	830203	12 465	1	21 18 01	33 131 N 118 126 W	1	2	2	2	5 13
	1		18 1	830205	11 112	1	23 05 01	33 320 N 118 283 W	1	1	2	2	5 13
	4		56 1	830205	13 303	1	23 22 01	33 174 N 118 249 W	1	1	1	2	5 13
	40		69 1	830205	14 145	1	23 30 01	33 227 N 118 388 W	1	2	2	2	5 13
	20		04 1	830206	10 187	1	24 01 01	33 337 N 118 410 W	1	1	3	2	5 13
	2		07 2	830206	10 390	1	24 03 01	33 247 N 118 418 W	1	1	1	2	5 13
	3		08 1	830206	10 390	1	24 03 01	33 247 N 118 418 W	1	2	1	2	5 13
	1		10 1	830206	10 534	1	24 04 02	33 292 N 118 343 W	1	2	1	2	5 13
	5		48 1	830206	13 398	1	24 23 01	33 162 N 118 288 W	1	1	2	2	5 13
	20		54 1	830206	14 225	1	24 29 01	33 240 N 118 347 W	1	2	3	2	2 12
	5		55 1	830206	14 226	1	24 29 01	33 239 N 118 349 W	1	2	1	2	2 12
	22	17	48 1	831214	13 056	1	27 18 01	33 150 N 118 104 W	1	1	3	2	1 11
	1	28	61 1	831214	14 233	1	27 29 01	33 234 N 118 358 W	1	2	2	3	2 12
	3	51	65 1	831214	14 348	1	27 31 01	33 254 N 118 386 W	1	1	1	2	2 12
	1	57	05 1	840109	11 582	1	28 05 01	33 322 N 118 280 W	1	1	1	1	2 04
	3	32	20 1	840109	15 150	1	28 32 01	33 294 N 118 363 W	1	1	2	3	2 06
	3	46	06 1	840110	11 162	1	29 02 01	33 302 N 118 401 W	1	1	1	3	2 10
	3	40	14 1	840110	11 253	1	29 03 02	33 278 N 118 383 W	1	2	1	2	2 04
	3	32	41 1	840111	14 220	1	30 27 01	33 225 N 118 321 W	1	1	2	2	2 12
	1		01 1	841220	11 340	1	33	33 323 N 118 466 W	2			2	1
	2		09 1	841220	12 528	1	33 11 01	33 255 N 118 208 W	1	2	1	2	1 05
	30		15 1	841220	13 556	1	33	33 184 N 118 173 W	2			2	2
	6		22 1	841220	15 078	1	33 32 01	33 253 N 118 414 W	1	2	1	2	2 06
	3		36 1	841221	13 476	5	34 01 01	33 221 N 118 517 W	1	2	1	1	2 09
	1		41 1	841221	13 543	5	34 01 01	33 260 N 119 063 W	1	1	1	1	2 09
	3		12 2	850114	10 320	1	35 02 01	33 293 N 118 441 W	1	2	1	2	2 10
	1		26 1	850114	12 098	1	35 17 01	33 144 N 118 160 W	1	2	2	1	1 04
	15		33 1	850114	12 461	1	35 20 01	33 175 N 118 203 W	1	1	1	1	1 05
	50		50 1	850114	13 292	1	35 27 01	33 229 N 118 314 W	1	1	2	1	2 12
	5		57 1	850114	13 464	1	35 29 01	33 222 N 118 371 W	1	1	1	1	2 12
	62		64 1	850114	14 156	3	35	33 410 N 118 167 W	2			1	2
	68	23	16 1	850115	13 149	3	36 02 01	33 504 N 118 299 W	1	2	1	2	2 05
	132	23	16 2	850115	13 149	3	36 02 01	33 504 N 118 299 W	1	2	2	2	2 05
	25		02 1	850116	10 439	6	37 02 01	34 242 N 119 487 W	1	1	2	2	2 03
	15		02 2	850116	10 439	6	37 02 01	34 242 N 119 487 W	1	1	3	2	2 03
	30	34	02 1	850118	10 188	4	39 02 01	33 059 N 118 383 W	1	2	2	2	2 10
	17	39	03 1	850118	10 243	4	39 02 02	32 597 N 118 450 W	1	2	2	3	2 10
	30	17	22 1	850118	13 316	1	39 27 02	33 205 N 118 344 W	1	2	3	2	2 12
	3		03 1	850918	12 426	7	04 01 06	39 027 N 123 418 W	1	1		2	4 04

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Unidentified dolphin or porpoise								
77	3		01 1	851004	11 196	8	11 01 01	48 185 N	124 279 W	1	2	2	3	1	07
77	1	37	01 1	851216	10 318	1	40 01 02	33 325 N	118 427 W	1	2	1	2	2	03
77	5	20	23 1	851216	14 375	1	40 32 01	33 257 N	118 404 W	1	1	3	1	2	06
77	40	40	24 1	851216	14 378	1	40 32 01	33 261 N	118 399 W	1	1	1	1	2	06
77	30		25 1	851216	14 381	1	40 32 01	33 264 N	118 396 W	1	1	1	1	2	06
77	3		26 1	851216	14 384	1	40 32 01	33 267 N	118 393 W	1	1	1	1	2	06
77	5		26 2	851216	14 384	1	40 32 01	33 267 N	118 393 W	1	1	2	1	2	06
77	1	25	05 1	851217	11 345	1	41 10 01	33 301 N	118 181 W	1	2	2	1	2	10
							Unidentified small whale								
78	1		22 1	840909	12 210	8	01 09 01	46 575 N	124 110 W	1	1	1	2	1	11
78	1		10 1	850114	10 308	1	35 02 01	33 303 N	118 424 W	1	2	1	2	2	10
78	1		20 1	850114	11 186	1	35 09 02	33 310 N	118 191 W	1	2	2	1	1	04
							Unidentified large whale								
79	1		27 1	810113	10 400	1	05 02 05	33 284 N	118 401 W	1	2	3	1	2	06
79	2		08 1	821214	11 419	1	17 01 05	33 255 N	118 400 W	1	1	3	1	2	07
79	3	06	05 1	840111	11 213	1	30 03 01	33 269 N	118 385 W	1	1	3	2	2	04
79	1		33 1	841221	13 183	1	34 27 01	33 235 N	118 310 W	1	1	1	1	2	12
							Southern sea otter (Enhydra lutris nereis)								
80	21		11 1	840909	10 460	8	01 06 01	47 587 N	124 409 W	1			2	2	10
80	2		15 1	840913	09 110	7	04 03 01	35 318 N	121 053 W	1	2	1	2	3	04
80	12		16 1	840913	09 120	7	04 03 01	35 330 N	121 065 W	1	2	1	2	3	04
80	1		17 1	840913	09 140	7	04 03 01	35 357 N	121 082 W	1	2	1	2	3	04
80	1		21 1	840913	09 250	7	04 04 01	35 453 N	121 196 W	1	2	1	1	2	05
80	1		25 1	840913	09 430	7	04 04 01	36 030 N	121 356 W	1	2	1	1	2	05
80	1		39 1	840913	10 120	7	04 06 01	36 335 N	121 576 W	1	2	1	2	2	05
80	6		50 1	840913	12 430	7	04 09 01	36 566 N	122 033 W	1	2	1	3	4	06
80	2		46 1	840914	13 120	7	05 15 01	36 362 N	121 580 W	1	2	1	3	4	11
80	2		06 1	840917	08 380	7	06 03 01	35 367 N	121 080 W	1	1	1	1	2	03
80	1		16 1	840917	09 175	7	06 04 01	36 188 N	121 543 W	1	1	1	2	2	04
80	1		22 1	840917	09 325	7	06 05 01	36 385 N	121 563 W	1	2	1	1	1	07
80	2		60 1	840918	15 150	7	07 18 01	36 360 N	121 582 W	1	1	1	2	2	11

8. continued

e l es	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								Southern sea otter (Enhydra lutris nereis)							
	6		70 1	840918	15 227	7	07 18 01	36 276 N	121 560 W	1	1	1	2	2	11
	1		79 1	840918	15 366	7	07 19 01	36 112 N	121 431 W	1	1	2	2	1	02
	1		81 1	840918	15 390	7	07 19 01	36 073 N	121 386 W	1	1	1	2	1	02
	2		83 1	840918	15 440	7	07 19 01	36 007 N	121 327 W	1	1	1	2	1	02
	1		84 1	840918	15 510	7	07 19 01	35 526 N	121 274 W	1	1	1	2	1	02
	1		17 1	850916	12 225	7	02 01 17	36 298 N	121 571 W	2			2	1	04
	1		03 1	851004	11 377	8	11 02 01	48 074 N	124 446 W	1	2	2	3	1	12
	1	52	45 1	851014	12 402	7	12 01 23	36 180 N	121 553 W	1	2	1	1	2	07
								California sea lion (Zalophus californianus)							
	1		02 1	801215	09 550	1	01 01 02	33 324 N	118 294 W	1	2	1	1	2	01
	1		03 1	801215	10 110	1	01 01 03	33 144 N	118 141 W	1	2	1	1	2	10
	2		04 1	801215	10 150	1	01 01 04	33 135 N	118 201 W	1	2	1	1	2	07
	1		08 1	801215	10 400	1	01 02 01	33 312 N	118 372 W	1	2	1	2	2	02
	1		11 1	801215	10 440	1	01 02 02	33 303 N	118 302 W	1	1	1	2	2	02
	1		11 2	801215	10 440	1	01 02 02	33 303 N	118 302 W	1	1	2	2	2	02
	1		23 1	801215	11 280	1	01 03 02	33 274 N	118 270 W	1	2	1	1	2	02
	3		25 1	801215	11 280	1	01 03 02	33 274 N	118 270 W	1	1	1	1	2	02
	3		31 1	801215	11 439	1	01 03 04	33 191 N	118 300 W	1	2	1	1	2	08
	1		32 1	801215	11 451	1	01 03 05	33 191 N	118 300 W	1	2	2	1	2	06
	1		33 1	801215	11 460	1	01 03 05	33 203 N	118 306 W	1	2	2	1	2	06
	1		36 1	801215	11 500	1	01 03 05	33 255 N	118 346 W	1	2	2	1	2	06
	2		43 1	801215	12 000	1	01 04 02	33 282 N	118 302 W	1	2	2	1	2	02
	5		44 1	801215	12 010	1	01 04 02	33 273 N	118 281 W	1	2	2	1	2	02
	1		54 1	801215	12 210	1	01 04 08	33 274 N	118 356 W	1	2	2	1	2	08
	1		55 2	801215	12 210	1	01 04 08	33 274 N	118 356 W	1	2	2	1	2	08
	1		04 1	801216	08 529	1	02 01 02	33 242 N	118 088 W	1	1	1	1	2	01
	1		09 1	801216	09 180	1	02 01 05	33 315 N	118 445 W	1	1	1	1	2	05
	11		11 1	801216	09 180	1	02 01 05	33 315 N	118 445 W	1	1	1	1	2	05
	1		12 1	801216	09 189	1	02 01 05	33 329 N	118 457 W	1	1	2	1	2	05
	1		13 1	801216	09 241	1	02 02 01	33 312 N	118 418 W	1	1	1	1	2	02
	1		14 1	801216	09 250	1	02 02 01	33 312 N	118 390 W	1	2	1	1	2	02
	1		15 1	801216	09 250	1	02 02 01	33 312 N	118 390 W	1	1	1	1	2	02
	1		16 1	801216	09 280	1	02 02 02	33 304 N	118 304 W	1	1	1	1	2	01
	1		17 1	801216	09 280	1	02 02 02	33 304 N	118 304 W	1	2	1	1	2	01
	1		19 1	801216	09 400	1	02 02 03	33 220 N	118 125 W	1	2	2	1	2	10
	1		22 1	801216	10 000	1	02 02 05	33 284 N	118 401 W	1	1	1	1	2	07
	1		24 1	801216	10 071	1	02 03 01	33 295 N	118 380 W	1	1	1	1	2	02
	1		27 1	801216	10 120	1	02 03 02	33 286 N	118 301 W	1	2	1	1	2	02
	1		28 1	801216	10 120	1	02 03 02	33 286 N	118 301 W	1	1	1	1	2	02

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								California sea lion (Zalophus californianus)					
91	6		32 1	801216	10 260	1	02 03 04	33 173 N 118 202 W	1	2	1	1	2 08
91	1		33 1	801216	10 260	1	02 03 04	33 173 N 118 202 W	1	2	1	1	2 08
91	1		35 1	801216	10 280	1	02 03 04	33 182 N 118 251 W	1	2	2	1	2 08
91	5		36 1	801216	10 280	1	02 03 04	33 182 N 118 251 W	1	2	1	1	2 08
91	1		40 1	801216	10 360	1	02 03 05	33 271 N 118 356 W	1	2	1	1	2 06
91	8		42 1	801216	10 480	1	02 04 02	33 275 N 118 285 W	1	1	1	1	2 02
91	1		43 1	801216	10 500	1	02 04 02	33 263 N 118 253 W	1	1	1	1	2 02
91	1		44 1	801216	10 500	1	02 04 02	33 263 N 118 253 W	1	1	1	1	2 02
91	1		52 1	801216	11 000	1	02 04 05	33 192 N 118 273 W	1	2	1	1	2 08
91	1		56 1	801216	11 049	1	02 04 06	33 248 N 118 295 W	1	1	1	1	2 05
91	1		57 1	801216	11 049	1	02 04 06	33 248 N 118 295 W	1	1	1	1	2 05
91	1		58 1	801216	11 051	1	02 04 07	33 248 N 118 295 W	1	1	2	1	2 08
91	8		59 1	801216	11 051	1	02 04 07	33 248 N 118 295 W	1	2	2	1	2 08
91	3		60 1	801216	11 060	1	02 04 07	33 254 N 118 320 W	1	1	2	1	2 08
91	1		63 1	801216	11 099	1	02 04 08	33 290 N 118 369 W	1	1	1	1	2 07
91	1		64 1	801216	11 099	1	02 04 08	33 290 N 118 369 W	1	1	1	1	2 07
91	1		03 1	801217	08 469	1	03 01 02	33 242 N 118 088 W	1	1	1	1	3 01
91	1		07 1	801217	09 040	1	03 01 04	33 161 N 118 301 W	1	2	1	1	2 07
91	2		08 1	801217	09 140	1	03 01 05	33 315 N 118 445 W	1	2	1	1	2 07
91	10		09 1	801217	09 140	1	03 01 05	33 315 N 118 445 W	1	1	2	1	2 07
91	1		11 1	801217	09 250	1	03 02 02	33 303 N 118 302 W	1	2	2	1	2 02
91	1		12 1	801217	09 250	1	03 02 02	33 303 N 118 302 W	1	2	1	1	2 02
91	1		13 1	801217	09 250	1	03 02 02	33 303 N 118 302 W	1	1	1	1	2 02
91	1		18 1	801217	09 460	1	03 02 04	33 173 N 118 291 W	1	1	1	2	2 07
91	2		19 1	801217	09 460	1	03 02 04	33 173 N 118 291 W	1	1	1	2	2 07
91	1		21 1	801217	09 490	1	03 02 05	33 192 N 118 323 W	1	2	2	2	2 06
91	1		22 1	801217	09 500	1	03 02 05	33 204 N 118 333 W	1	2	1	2	2 06
91	1		23 1	801217	09 550	1	03 02 05	33 272 N 118 390 W	1	2	1	2	2 06
91	45		25 1	801217	09 570	1	03 02 05	33 300 N 118 411 W	1	1	1	2	2 06
91	1		26 1	801217	09 579	1	03 02 05	33 312 N 118 418 W	1	2	3	2	2 06
91	2		27 1	801217	10 040	1	03 03 01	33 295 N 118 351 W	1	2	1	1	2 02
91	1		28 1	801217	10 061	1	03 03 02	33 295 N 118 322 W	1	2	2	1	2 02
91	1		29 1	801217	10 061	1	03 03 02	33 295 N 118 322 W	1	2	2	1	2 02
91	1		30 1	801217	10 180	1	03 03 03	33 185 N 118 165 W	1	2	1	1	2 10
91	1		32 1	801217	10 210	1	03 03 04	33 173 N 118 202 W	1	2	1	2	2 08
91	1		37 2	801217	10 230	1	03 03 04	33 182 N 118 251 W	1	1	2	2	2 08
91	1		38 1	801217	10 230	1	03 03 04	33 182 N 118 251 W	1	2	1	2	2 08
91	5		40 1	801217	10 250	1	03 03 04	33 191 N 118 300 W	1	1	1	2	2 08
91	1		42 1	801217	10 251	1	03 03 05	33 191 N 118 300 W	1	1	1	1	2 06
91	1		45 1	801217	10 280	1	03 03 05	33 231 N 118 326 W	1	2	1	1	2 06
91	6		46 1	801217	10 290	1	03 03 05	33 243 N 118 336 W	1	1	1	1	2 06
91	8		47 1	801217	10 290	1	03 03 05	33 243 N 118 336 W	1	2	2	1	2 06
91	1		48 1	801217	10 300	1	03 03 05	33 255 N 118 346 W	1	1	2	1	2 06

e 8. continued

ne al ies le Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
						California sea lion (Zalophus californianus)								
1		49 1	801217	10 310	1	03 03 05	33 271 N	118 356 W	1	2	1	1	2	06
1		50 1	801217	10 310	1	03 03 05	33 271 N	118 356 W	1	2	1	1	2	06
1		52 1	801217	10 410	1	03 04 02	33 282 N	118 302 W	1	2	2	1	2	02
3		53 1	801217	10 410	1	03 04 02	33 282 N	118 302 W	1	2	1	1	2	02
9		53 2	801217	10 410	1	03 04 02	33 282 N	118 302 W	1	2	2	1	2	02
1		55 1	801217	10 520	1	03 04 05	33 181 N	118 216 W	1	2	1	1	2	08
1		56 1	801217	10 530	1	03 04 05	33 184 N	118 236 W	1	1	1	1	2	08
1		59 1	801217	10 550	1	03 04 05	33 193 N	118 276 W	1	2	1	1	2	08
13		61 1	801217	10 550	1	03 04 05	33 193 N	118 276 W	1	2	1	1	2	08
2		65 1	801217	10 562	1	03 04 06	33 204 N	118 296 W	1	1	1	1	2	05
1		66 1	801217	10 570	1	03 04 06	33 224 N	118 296 W	1	1	1	1	2	05
1		67 1	801217	10 570	1	03 04 06	33 224 N	118 296 W	1	1	1	1	2	05
1		68 1	801217	10 570	1	03 04 06	33 224 N	118 296 W	1	2	2	1	2	05
4		70 1	801217	11 011	1	03 04 08	33 257 N	118 342 W	1	2	1	2	2	06
1		71 1	801217	11 011	1	03 04 08	33 257 N	118 342 W	1	1	1	2	2	06
1		72 1	801217	11 011	1	03 04 08	33 257 N	118 342 W	1	1	1	2	2	06
11		73 1	801217	11 011	1	03 04 08	33 257 N	118 342 W	1	1	1	2	2	06
9		74 1	801217	11 020	1	03 04 08	33 274 N	118 356 W	1	1	2	2	2	06
1		04 1	801218	10 030	1	04 02 01	33 312 N	118 372 W	1	2	2	2	5	13
1		05 1	801218	10 039	1	04 02 01	33 312 N	118 318 W	1	2	1	2	5	13
1		06 1	801218	10 061	1	04 02 02	33 312 N	118 318 W	1	2	1	1	5	13
1		07 1	801218	10 170	1	04 02 03	33 220 N	118 125 W	1	2	1	1	5	13
2		09 1	801218	10 550	1	04 03 02	33 273 N	118 263 W	1	1	2	1	5	13
1		10 1	801218	10 570	1	04 03 02	33 255 N	118 223 W	1	1	1	1	5	13
2		11 1	801218	10 590	1	04 03 02	33 242 N	118 184 W	1	2	2	1	5	13
1		12 1	801218	11 040	1	04 03 03	33 182 N	118 171 W	1	1	2	1	2	10
3		13 1	801218	11 049	1	04 03 03	33 166 N	118 176 W	1	2	3	1	2	10
1		14 1	801218	11 080	1	04 03 04	33 182 N	118 251 W	1	1	1	2		
1		15 1	801218	11 099	1	04 03 04	33 191 N	118 300 W	1	1	1	2		
2		16 1	801218	11 099	1	04 03 04	33 191 N	118 300 W	1	2	1	2		
1		18 1	801218	11 150	1	04 03 05	33 234 N	118 332 W	1	1	1	2	5	13
1		19 1	801218	11 160	1	04 03 05	33 252 N	118 343 W	1	1	1	2	5	13
1		20 1	801218	11 170	1	04 03 05	33 265 N	118 354 W	1	2	2	2	5	13
1		21 1	801218	11 231	1	04 04 01	33 290 N	118 369 W	1	2	1	2	5	13
3		25 1	801218	11 390	1	04 04 05	33 185 N	118 246 W	1	2	2	3	5	13
1		29 1	801218	11 439	1	04 04 06	33 248 N	118 295 W	1	1	1	1	5	13
1		29 2	801218	11 439	1	04 04 06	33 248 N	118 295 W	1	1	2	1	5	13
1		30 2	801218	11 480	1	04 04 08	33 274 N	118 356 W	1	2	1	1	5	13
1		31 1	801218	11 480	1	04 04 08	33 274 N	118 356 W	1	1	1	1	5	13
1		01 1	810113	09 200	1	05 01 01	33 333 N	118 373 W	1	2	2	1	2	02
1		02 1	810113	09 219	1	05 01 01	33 329 N	118 315 W	1	1	1	1	2	02
1		03 1	810113	09 219	1	05 01 01	33 329 N	118 315 W	1	1	1	1	2	02
1		05 1	810113	09 330	1	05 01 02	33 251 N	118 111 W	1	2	2	2	2	01

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
91	1		09 1	810113	09 589	1	05 01 05	33 329 N	118 457 W	1	1	1	1	2	05
91	1		20 1	810113	10 340	1	05 02 05	33 204 N	118 333 W	1	2	1	1	2	06
91	4		21 1	810113	10 340	1	05 02 05	33 204 N	118 333 W	1	2	1	1	2	06
91	8		22 1	810113	10 340	1	05 02 05	33 204 N	118 333 W	1	1	2	1	2	06
91	1		28 1	810113	10 520	1	05 03 02	33 273 N	118 263 W	1	2	1	1	2	01
91	4		29 1	810113	10 530	1	05 03 02	33 264 N	118 243 W	1	1	1	1	2	01
91	1		38 1	810113	11 101	1	05 03 05	33 191 N	118 300 W	1	1	2	1	2	07
91	1		44 1	810113	11 240	1	05 04 02	33 265 N	118 261 W	1	1	1	1	2	02
91	1		45 1	810113	11 271	1	05 04 03	33 248 N	118 220 W	1	1	1	1	2	01
91	1		47 1	810113	11 290	1	05 04 03	33 211 N	118 184 W	1	1	1	1	2	01
91	1		57 1	810113	11 390	1	05 04 06	33 233 N	118 295 W	1	1	1	1	2	06
91	1		62 1	810113	11 429	1	05 04 07	33 257 N	118 342 W	1	2	2	1	2	09
91	1		63 1	810113	11 449	1	05 04 08	33 290 N	118 369 W	1	2	2	2	2	07
91	3		01 1	810115	11 260	1	06 01 05	33 211 N	118 362 W	1	2	1	1	1	06
91	3		13 1	810115	12 080	1	06 02 05	33 204 N	118 333 W	1	2	1	1	1	07
91	1		14 1	810115	12 100	1	06 02 05	33 232 N	118 354 W	1	2	2	1	1	07
91	4		18 1	810115	12 270	1	06 03 02	33 266 N	118 252 W	1	1	2	2	1	02
91	1		25 1	810115	12 490	1	06 03 05	33 271 N	118 356 W	1	1	1	1	1	08
91	1		27 1	810115	12 549	1	06 04 01	33 290 N	118 322 W	1	1	1	1	1	03
91	1		28 1	810115	12 580	1	06 04 02	33 273 N	118 281 W	1	1	1	1	1	02
91	2		08 1	810116	10 020	1	07 01 05	33 241 N	118 385 W	1	2	2	1	2	06
91	18		10 1	810116	10 050	1	07 01 05	33 285 N	118 423 W	1	1	1	1	2	06
91	8		11 1	810116	10 060	1	07 01 05	33 302 N	118 434 W	1	2	2	1	2	06
91	2		12 1	810116	10 060	1	07 01 05	33 302 N	118 434 W	1	1	2	1	2	06
91	1		15 1	810116	10 190	1	07 02 02	33 286 N	118 262 W	1	2	1	1	2	02
91	3		15 2	810116	10 190	1	07 02 02	33 286 N	118 262 W	1	2	2	1	2	02
91	1		16 1	810116	10 259	1	07 02 02	33 233 N	118 117 W	1	1	2	1	2	02
91	1		18 1	810116	10 300	1	07 02 03	33 174 N	118 150 W	1	2	2	1	2	10
91	30		22 1	810116	10 490	1	07 02 05	33 300 N	118 411 W	1	2	2	1	2	06
91	1		34 1	810116	11 150	1	07 03 04	33 182 N	118 245 W	1	1	2	1	1	08
91	1		35 1	810116	11 160	1	07 03 04	33 183 N	118 263 W	1	1	1	1	1	08
91	1		39 1	810116	11 190	1	07 03 05	33 204 N	118 311 W	1	2	1	1	1	07
91	1		42 1	810116	11 300	1	07 04 01	33 290 N	118 346 W	1	1	1	1	1	03
91	1		43 1	810116	11 309	1	07 04 01	33 290 N	118 322 W	1	1	1	1	1	03
91	1		45 1	810116	11 330	1	07 04 02	33 275 N	118 285 W	1	1	1	1	1	02
91	1		46 1	810116	11 380	1	07 04 03	33 235 N	118 204 W	1	2	1	1	1	01
91	1		50 1	810116	11 429	1	07 04 04	33 175 N	118 196 W	1	1	1	1	1	11
91	1		53 1	810116	11 440	1	07 04 05	33 182 N	118 223 W	1	1	1	1	1	08
91	3		64 1	810116	11 549	1	07 04 08	33 290 N	118 369 W	1	2	1	1	1	07
91	2		65 1	810116	11 549	1	07 04 08	33 290 N	118 369 W	1	1	1	1	1	07
91	1		66 1	810116	11 549	1	07 04 08	33 290 N	118 369 W	1	2	2	1	1	07
91	1		67 1	810116	11 549	1	07 04 08	33 290 N	118 369 W	1	2	1	1	1	07
91	1		04 1	810117	09 570	1	08 01 05	33 221 N	118 371 W	1	2	1	3	2	05

e 8. continued

ne al ies e	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
	1		05 1	810117	10 010	1	08 01 05	33 275 N	118 414 W	1	1	2	3	2	05
	1		06 1	810117	10 030	1	08 01 05	33 304 N	118 435 W	1	2	2	3	2	05
	1		07 1	810117	10 040	1	08 01 05	33 321 N	118 450 W	1	1	1	3	2	05
	1		09 1	810117	10 320	1	08 02 04	33 154 N	118 204 W	1	1	1	2	2	07
	2		12 1	810117	10 371	1	08 02 05	33 176 N	118 312 W	1	2	2	3	2	06
	1		13 1	810117	10 380	1	08 02 05	33 192 N	118 323 W	1	2	1	3	2	06
	6		14 1	810117	10 390	1	08 02 05	33 204 N	118 333 W	1	1	1	3	2	06
	1		15 1	810117	10 420	1	08 02 05	33 244 N	118 365 W	1	2	1	3	2	06
	1		17 1	810117	10 469	1	08 02 05	33 312 N	118 418 W	1	1	1	3	2	06
	1		20 1	810117	11 120	1	08 03 04	33 183 N	118 256 W	1	2	2	2	2	08
	1		23 1	810117	11 150	1	08 03 05	33 202 N	118 305 W	1	2	2	3	2	06
	2		24 1	810117	11 160	1	08 03 05	33 213 N	118 315 W	1	2	1	3	2	06
	1		26 1	810117	11 220	1	08 03 05	33 284 N	118 371 W	1	2	2	3	2	06
	1		27 1	810117	11 229	1	08 03 05	33 295 N	118 380 W	1	2	2	3	2	06
	3		28 1	810117	11 251	1	08 04 01	33 290 N	118 369 W	1	1	1	2	2	02
	6		29 1	810117	11 260	1	08 04 01	33 290 N	118 346 W	1	2	2	2	2	02
	1		37 1	810117	11 450	1	08 04 06	33 224 N	118 296 W	1	2	1	2	2	06
	1		40 1	810117	11 509	1	08 04 08	33 290 N	118 369 W	1	2	2	3	2	07
	1		01 1	810223	10 230	1	09 01 03	33 142 N	118 143 W	1	2	3	2	2	10
	1		02 1	810223	10 290	1	09 01 04	33 143 N	118 226 W	1	1	1	4	2	07
	1		03 1	810223	10 430	1	09 01 05	33 315 N	118 445 W	1	2	1	3	2	06
	5		04 1	810223	10 439	1	09 01 05	33 329 N	118 457 W	1	2	1	3	2	06
	1		07 1	810223	11 530	1	09 03 04	33 180 N	118 236 W	1	1	1	3	1	08
	1		08 1	810223	11 540	1	09 03 04	33 184 N	118 266 W	1	2	1	3	1	08
	1		16 1	810223	12 189	1	09 04 03	33 187 N	118 170 W	1	2	3	2	1	02
	2		17 1	810223	12 200	1	09 04 04	33 183 N	118 183 W	1	2	1	2	1	11
	1		19 1	810223	12 230	1	09 04 05	33 185 N	118 246 W	1	2	1	4	1	09
	1		20 1	810223	12 279	1	09 04 06	33 248 N	118 295 W	1	2	1	3	1	07
	2		01 1	810224	08 490	1	10 01 02	33 333 N	118 244 W	1	1	1	1	2	01
	3		02 1	810224	08 490	1	10 01 02	33 333 N	118 244 W	1	2	1	1	2	01
	8		03 1	810224	09 039	1	10 01 03	33 125 N	118 151 W	1	2	1	1	5	13
	1		04 1	810224	09 271	1	10 02 01	33 312 N	118 418 W	1	1	1	2	2	02
	1		05 1	810224	09 320	1	10 02 02	33 303 N	118 302 W	1	1	1	1	2	01
	1		11 1	810224	09 590	1	10 02 05	33 244 N	118 365 W	1	2	1	1	5	13
	1		12 1	810224	10 000	1	10 02 05	33 260 N	118 376 W	1	2	1	1	5	13
	1		14 1	810224	10 120	1	10 03 02	33 290 N	118 302 W	1	1	2	1	2	01
	1		16 1	810224	10 160	1	10 03 02	33 255 N	118 223 W	1	1	1	1	2	01
	1		18 1	810224	10 239	1	10 03 03	33 166 N	118 176 W	1	1	1	1	2	10
	4		19 1	810224	10 270	1	10 03 04	33 175 N	118 225 W	1	2	1	1	5	13
	9		21 1	810224	10 280	1	10 03 04	33 182 N	118 251 W	1	2	1	1	5	13
	1		23 2	810224	10 360	1	10 03 05	33 255 N	118 346 W	1	2	1	1	5	13
	4		27 1	810224	10 491	1	10 04 03	33 248 N	118 220 W	1	2	1	2	2	02
	6		36 1	810224	11 069	1	10 04 08	33 290 N	118 369 W	1	2	2	2		

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
91	1		04 1	810226	09 269	1	11 01 05	33 329 N	118 457 W	1	2	2	3	2	05
91	1		06 1	810226	09 320	1	11 02 01	33 312 N	118 395 W	1	2	1	3	2	02
91	1		08 1	810226	09 480	1	11 02 03	33 191 N	118 142 W	1	2	1	3	2	10
91	1		09 1	810226	09 480	1	11 02 03	33 191 N	118 142 W	1	2	1	3	2	10
91	1		12 1	810226	09 581	1	11 02 05	33 176 N	118 312 W	1	1	1	3	2	05
91	1		13 1	810226	10 139	1	11 03 01	33 295 N	118 380 W	1	1	2	3	2	02
91	6		18 1	810226	10 290	1	11 03 04	33 173 N	118 206 W	1	2	1	3	2	06
91	2		19 1	810226	10 300	1	11 03 04	33 175 N	118 223 W	1	2	1	3	2	06
91	1		21 1	810226	10 351	1	11 03 05	33 191 N	118 300 W	1	2	1	3	2	05
91	1		24 1	810226	10 380	1	11 03 05	33 231 N	118 326 W	1	2	1	3	2	05
91	1		26 1	810226	10 410	1	11 03 05	33 271 N	118 356 W	1	2	1	3	2	05
91	1		28 1	810226	10 480	1	11 04 01	33 290 N	118 340 W	1	1	1	3	2	03
91	12		31 1	810226	10 540	1	11 04 02	33 282 N	118 302 W	1	2	1	3	1	02
91	3		32 1	810226	10 579	1	11 04 02	33 248 N	118 220 W	1	2	2	3	1	02
91	1		33 1	810226	11 011	1	11 04 04	33 187 N	118 170 W	1	2	3	3	1	09
91	1		36 1	810226	11 100	1	11 04 06	33 233 N	118 295 W	1	2	1	3	1	05
91	1		40 1	810226	11 150	1	11 04 08	33 271 N	118 352 W	1	2	1	3	1	06
91	2		41 1	810226	11 150	1	11 04 08	33 271 N	118 352 W	1	2	1	3	1	06
91	5		42 1	810226	11 160	1	11 04 08	33 280 N	118 363 W	1	1	1	3	1	06
91	3		43 1	810226	11 160	1	11 04 08	33 280 N	118 363 W	1	2	1	3	1	06
91	1		44 1	810226	11 160	1	11 04 08	33 280 N	118 363 W	1	2	2	3	1	06
91	2		45 1	810226	11 160	1	11 04 08	33 280 N	118 363 W	1	2	2	3	1	06
91	1		46 1	810226	11 160	1	11 04 08	33 280 N	118 363 W	1	1	1	3	1	06
91	1		02 1	810227	09 149	1	12 01 01	33 329 N	118 315 W	1	1	1	2	2	02
91	1		03 1	810227	09 160	1	12 01 02	33 324 N	118 295 W	1	1	2	2	2	01
91	1		04 1	810227	09 170	1	12 01 02	33 315 N	118 274 W	1	1	1	2	2	01
91	1		06 1	810227	09 230	1	12 01 02	33 265 N	118 153 W	1	1	2	2	2	01
91	1		07 1	810227	09 230	1	12 01 02	33 265 N	118 153 W	1	1	1	2	2	01
91	1		08 1	810227	09 350	1	12 01 04	33 134 N	118 193 W	1	2	1	3	2	07
91	1		09 1	810227	09 380	1	12 01 04	33 151 N	118 261 W	1	2	1	3	2	07
91	2		10 1	810227	09 390	1	12 01 04	33 154 N	118 282 W	1	2	1	3	2	07
91	1		11 1	810227	09 430	1	12 01 05	33 194 N	118 351 W	1	1	1	2	2	05
91	1		16 1	810227	09 500	1	12 01 05	33 302 N	118 434 W	1	2	1	2	2	05
91	3		17 1	810227	09 510	1	12 01 05	33 316 N	118 456 W	1	2	1	2	2	05
91	3		18 1	810227	09 519	1	12 01 05	33 329 N	118 457 W	1	1	1	2	2	05
91	1		19 1	810227	09 589	1	12 02 01	33 312 N	118 318 W	1	1	1	2	1	02
91	1		20 1	810227	10 000	1	12 02 02	33 304 N	118 303 W	1	1	2	2	1	01
91	1		21 1	810227	10 000	1	12 02 02	33 304 N	118 303 W	1	1	1	2	1	01
91	1		22 1	810227	10 050	1	12 02 02	33 270 N	118 212 W	1	1	1	2	1	01
91	1		23 1	810227	10 080	1	12 02 02	33 246 N	118 155 W	1	2	1	2	1	01
91	1		24 1	810227	10 290	1	12 02 05	33 272 N	118 390 W	1	2	1	2	1	05
91	1		25 1	810227	10 300	1	12 02 05	33 284 N	118 401 W	1	2	1	2	1	05
91	1		26 1	810227	10 319	1	12 02 05	33 312 N	118 418 W	1	1	2	2	1	05

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arine ammal pecies Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								California sea lion (Zalophus californianus)					
91	2		27 1	810227	10 319	1	12 02 05	33 312 N 118 418 W	1	1	1	2	1 05
91	1		28 1	810227	10 400	1	12 03 02	33 290 N 118 302 W	1	2	1	2	1 02
91	4		29 1	810227	10 400	1	12 03 02	33 290 N 118 302 W	1	2	1	2	1 02
91	1		30 1	810227	10 400	1	12 03 02	33 290 N 118 302 W	1	1	1	2	1 02
91	1		31 1	810227	10 420	1	12 03 02	33 273 N 118 263 W	1	1	1	2	1 02
91	1		34 1	810227	10 500	1	12 03 03	33 185 N 118 165 W	1	2	1	2	1 11
91	4		35 1	810227	10 530	1	12 03 04	33 175 N 118 225 W	1	1	1	1	1 06
91	1		36 1	810227	10 550	1	12 03 04	33 184 N 118 274 W	1	2	1	1	1 06
91	1		38 1	810227	11 030	1	12 03 05	33 271 N 118 356 W	1	1	2	2	1 05
91	1		39 1	810227	11 040	1	12 03 05	33 283 N 118 366 W	1	1	1	2	1 05
91	1		40 1	810227	11 049	1	12 03 05	33 295 N 118 380 W	1	1	1	2	1 05
91	1		41 1	810227	11 049	1	12 03 05	33 295 N 118 380 W	1	1	1	2	1 05
91	1		44 1	810227	11 090	1	12 04 01	33 290 N 118 346 W	1	2	1	2	1 03
91	1		44 2	810227	11 090	1	12 04 01	33 290 N 118 346 W	1	2	2	2	1 03
91	36		45 1	810227	11 099	1	12 04 01	33 290 N 118 322 W	1	2	2	2	1 03
91	1		49 1	810227	11 140	1	12 04 02	33 260 N 118 240 W	1	2	1	2	1 03
91	3		50 1	810227	11 151	1	12 04 03	33 248 N 118 220 W	1	1	3	2	1 12
91	1		51 1	810227	11 170	1	12 04 03	33 222 N 118 193 W	1	2	1	2	1 12
91	5		53 1	810227	11 220	1	12 04 05	33 182 N 118 223 W	1	1	1	2	1 08
91	7		54 1	810227	11 220	1	12 04 05	33 182 N 118 223 W	1	2	1	2	1 08
91	1		55 1	810227	11 230	1	12 04 05	33 185 N 118 246 W	1	1	1	2	1 08
91	1		56 1	810227	11 240	1	12 04 05	33 192 N 118 273 W	1	1	1	2	1 08
91	1		57 1	810227	11 310	1	12 04 08	33 271 N 118 352 W	1	2	1	2	1 06
91	1		58 1	810227	11 310	1	12 04 08	33 271 N 118 352 W	1	1	1	2	1 06
91	3		59 1	810227	11 320	1	12 04 08	33 280 N 118 363 W	1	2	1	2	1 06
91	5		60 1	810227	11 320	1	12 04 08	33 280 N 118 363 W	1	2	1	2	1 06
91	1		61 1	810227	11 320	1	12 04 08	33 280 N 118 363 W	1	2	1	2	1 06
91	50		62 1	810227	11 329	1	12 04 08	33 290 N 118 369 W	1	1	1	2	1 06
91	1		63 1	810227	11 329	1	12 04 08	33 290 N 118 369 W	1	1	1	2	1 06
91	1		03 1	810323	12 260	1	13 01 05	33 224 N 118 374 W	1	1	1	2	1 09
91	1		05 1	810323	12 380	1	13 02 01	33 312 N 118 372 W	1	1	2	2	1 03
91	1		06 1	810323	12 410	1	13 02 02	33 303 N 118 302 W	1	1	1	2	1 03
91	1		07 1	810323	12 430	1	13 02 02	33 286 N 118 262 W	1	2	1	2	1 03
91	1		08 1	810323	12 590	1	13 02 04	33 164 N 118 246 W	1	2	1	2	1 09
91	1		10 1	810323	13 031	1	13 02 05	33 176 N 118 312 W	1	2	1	2	1 09
91	3		12 1	810323	13 260	1	13 03 02	33 234 N 118 171 W	1	1	2	3	1 03
91	2		13 1	810323	13 309	1	13 03 03	33 166 N 118 176 W	1	1	2	2	1 12
91	1		15 1	810323	13 430	1	13 03 05	33 251 N 118 343 W	1	1	2	2	1 09
91	1		21 1	810323	14 140	1	13 04 08	33 274 N 118 356 W	1	2	1	2	1 09
91	7		03 1	810324	09 460	1	14 01 04	33 154 N 118 282 W	1	1	3	1	2 07
91	1		07 1	810324	10 040	1	14 02 01	33 312 N 118 395 W	1	1	1	2	1 02
91	1		10 1	810324	10 320	1	14 02 05	33 204 N 118 333 W	1	2	2	1	1 05
91	1		13 1	810324	10 550	1	14 03 02	33 242 N 118 184 W	1	1	2	2	1 02

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
91	12		14 1	810324	10 590	1	14 03 03	33 185 N	118 165 W	1	2	1	1	1	11
91	1		15 1	810324	10 599	1	14 03 03	33 166 N	118 176 W	1	1	1	1	1	11
91	1		16 1	810324	11 030	1	14 03 04	33 180 N	118 236 W	1	1	1	2	1	06
91	15		20 1	810324	11 129	1	14 03 05	33 295 N	118 380 W	1	1	1	2	1	05
91	2		21 1	810324	11 180	1	14 04 01	33 290 N	118 346 W	1	2	1	2	1	03
91	1		22 1	810324	11 289	1	14 04 03	33 187 N	118 170 W	1	1	1	1	1	12
91	8		24 1	810324	11 300	1	14 04 04	33 183 N	118 183 W	1	2	1	1	1	11
91	1		26 1	810324	11 340	1	14 04 05	33 192 N	118 273 W	1	1	1	1	1	06
91	1		01 1	810325	10 520	1	15 01 01	33 333 N	118 435 W	1	1	1	2	1	02
91	1		02 1	810325	10 530	1	15 01 01	33 333 N	118 412 W	1	2	1	2	1	02
91	1		03 1	810325	10 569	1	15 01 01	33 329 N	118 315 W	1	1	1	2	1	02
91	1		08 1	810325	11 150	1	15 01 03	33 143 N	118 142 W	1	2	2	1	1	11
91	1		09 1	810325	11 239	1	15 01 04	33 159 N	118 324 W	1	2	2	2	1	10
91	1		13 1	810325	11 349	1	15 01 05	33 329 N	118 457 W	1	2	2	2	1	08
91	1		16 1	810325	11 391	1	15 02 01	33 312 N	118 418 W	1	1	2	2	1	03
91	1		20 1	810325	12 150	1	15 02 05	33 286 N	118 402 W	1	2	1	2	1	08
91	2		23 1	810325	12 499	1	15 03 05	33 295 N	118 380 W	1	1	1	2	1	08
91	1		24 1	810325	13 020	1	15 04 03	33 211 N	118 184 W	1	1	2	2	1	02
91	1		02 1	821213	11 310	1	16 01 04	33 131 N	118 166 W	1	2	1	2	2	09
91	1		03 1	821213	11 500	1	16 01 05	33 275 N	118 283 W	1	2	1	2	2	07
91	1		04 1	821213	11 580	1	16 02 01	33 312 N	118 395 W	1	1	1	2	2	03
91	1		08 1	821213	12 120	1	16 02 02	33 241 N	118 135 W	1	1	1	2	2	02
91	1		14 1	821213	12 390	1	16 02 05	33 302 N	118 413 W	1	2	2	3	2	07
91	3		17 1	821213	13 047	1	16 03 04	33 172 N	118 192 W	1	2	1	2	2	10
91	25		19 1	821213	13 055	1	16 03 04	33 173 N	118 203 W	1	2	1	2	2	10
91	17		20 1	821213	13 060	1	16 03 04	33 173 N	118 205 W	1	1	2	2	2	10
91	1		23 1	821213	13 318	1	16 04 02	33 264 N	118 256 W	1	1	1	2	2	03
91	1		02 1	821214	11 187	1	17 01 03	33 195 N	118 114 W	1	2	1	2	2	12
91	1		06 1	821214	11 205	1	17 01 03	33 163 N	118 132 W	1	1	1	2	2	12
91	1		12 1	821214	12 007	1	17 02 02	33 294 N	118 281 W	1	1	1	1	2	02
91	1		20 1	821214	12 166	1	17 02 03	33 184 N	118 144 W	1	2	1	1	2	11
91	14		21 1	821214	12 186	1	17 02 03	33 155 N	118 160 W	1	1	2	1	2	11
91	1		23 1	821214	12 323	1	17 02 05	33 213 N	118 342 W	1	1	2	1	2	08
91	2		24 1	821214	12 386	1	17 02 05	33 285 N	118 402 W	1	1	2	1	2	08
91	1		26 1	821214	12 560	1	17 03 02	33 253 N	118 214 W	1	1	1	1	2	02
91	10		27 1	821214	13 058	1	17 03 04	33 172 N	118 202 W	1	2	2	1	2	09
91	10		28 1	821214	13 065	1	17 03 04	33 173 N	118 211 W	1	2	2	1	2	09
91	1		29 1	821214	13 073	1	17 03 04	33 175 N	118 222 W	1	1	1	1	2	09
91	25		30 2	821214	13 077	1	17 03 04	33 176 N	118 233 W	1	1	3	1	2	09
91	1		32 1	821214	13 288	1	17 03 05	33 292 N	118 373 W	1	1	1	2	2	09
91	1		33 1	821214	13 369	1	17 04 02	33 274 N	118 285 W	1	1	1	2	2	03
91	1		33 2	821214	13 369	1	17 04 02	33 274 N	118 285 W	1	1	2	2	2	03
91	2		34 1	821214	13 463	1	17 04 03	33 195 N	118 174 W	1	1	1	1	2	02

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rine mmal ecies ode	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
91	2		35 1	821214	13 470	1	17 04 04	33 193 N	118 162 W	1	2	1	1	2	
91	1		37 1	821214	13 481	1	17 04 04	33 185 N	118 176 W	1	1	2	1	2	
91	1		38 1	821214	13 564	1	17 04 06	33 216 N	118 296 W	1	1	1	1	2	07
91	1		39 1	821214	14 037	1	17 04 08	33 281 N	118 363 W	1	2	1	2	2	09
91	1		40 1	821214	14 047	1	17 04 08	33 290 N	118 368 W	1	2	1	2	2	09
91	1		01 1	821215	10 370	1	18 01 01	33 324 N	118 420 W	1	1	2	1	2	04
91	1		02 1	821215	10 372	1	18 01 01	33 326 N	118 417 W	1	1	1	1	2	04
91	2		04 1	821215	10 454	1	18 02 01	33 347 N	118 351 W	1	2	1	1	2	10
91	1		05 1	821215	10 503	1	18 02 01	33 294 N	118 408 W	1	2	2	1	2	10
91	1		07 1	821215	11 030	1	18 03 01	33 302 N	118 433 W	1	2	1	1	2	04
91	1		08 1	821215	11 170	1	18 05 01	33 320 N	118 280 W	1	1	1	1	2	04
91	1		10 1	821215	11 246	1	18 06 01	33 275 N	118 308 W	1	1	1	1	2	10
91	1		11 1	821215	11 260	1	18 07 01	33 274 N	118 279 W	1	1	1	2	2	04
91	1		12 1	821215	11 270	1	18 07 01	33 275 N	118 278 W	1	2	1	2	2	04
91	1		13 1	821215	11 361	1	18 08 01	33 269 N	118 266 W	1	1	1	1	2	11
91	1		14 1	821215	12 018	1	18 12 01	33 240 N	118 200 W	1	2	1	1	2	10
91	1		15 1	821215	12 024	1	18 12 01	33 233 N	118 207 W	1	1	1	1	2	10
91	1		16 1	821215	12 029	1	18 12 01	33 228 N	118 212 W	1	1	1	1	2	10
91	1		18 1	821215	12 111	1	18 14 01	33 245 N	118 147 W	1	2	2	1	2	11
91	1		19 1	821215	12 194	1	18 15 01	33 231 N	118 132 W	1	1	1	1	2	05
91	1		20 1	821215	12 200	1	18 15 01	33 234 N	118 130 W	1	2	2	1	2	05
91	1		22 1	821215	12 286	1	18 16 01	33 164 N	118 188 W	1	2	1	1	2	11
91	1		23 1	821215	12 396	1	18 17 01	33 151 N	118 148 W	1	1	1	1	2	05
91	35		24 1	821215	12 404	1	18 17 01	33 160 N	118 141 W	1	2	2	1	2	05
91	23		25 1	821215	12 408	1	18 17 01	33 165 N	118 137 W	1	1	3	1	2	05
91	5		26 1	821215	12 409	1	18 17 01	33 165 N	118 126 W	1	2	2	1	2	05
91	62		27 1	821215	12 410	1	18 17 01	33 167 N	118 133 W	1	1	3	1	2	05
91	20		28 1	821215	12 410	1	18 17 01	33 169 N	118 131 W	1	1	3	1	2	05
91	3		32 1	821215	13 069	1	18 19 01	33 167 N	118 185 W	1	2	1	1	2	12
91	3		33 1	821215	13 069	1	18 19 01	33 167 N	118 185 W	1	1	1	1	2	12
91	1		35 1	821215	13 108	1	18 19 01	33 119 N	118 237 W	1	1	1	1	2	12
91	1		36 1	821215	13 170	1	18 20 01	33 165 N	118 209 W	1	1	2	1	2	06
91	1		36 2	821215	13 173	1	18 20 01	33 168 N	118 205 W	1	2	2	1	2	06
91	2		37 1	821215	13 178	1	18 20 01	33 172 N	118 200 W	1	2	2	1	2	06
91	1		39 1	821215	13 195	1	18 21 01	33 177 N	118 218 W	1	1	1	1	2	12
91	1		40 1	821215	13 197	1	18 21 01	33 174 N	118 221 W	1	1	1	1	2	12
91	5		41 2	821215	13 199	1	18 21 01	33 172 N	118 224 W	1	1	1	1	2	12
91	10		42 1	821215	13 199	1	18 21 01	33 172 N	118 224 W	1	2	2	1	2	12
91	15		43 1	821215	13 201	1	18 21 01	33 170 N	118 227 W	1	2	2	1	2	12
91	1		45 1	821215	13 229	1	18 21 01	33 143 N	118 263 W	1	1	2	1	2	12
91	1		48 1	821215	13 278	1	18 22 01	33 173 N	118 249 W	1	1	2	1	2	12
91	1		49 1	821215	13 306	1	18 23 01	33 182 N	118 261 W	1	1	1	1	2	12
91	1		59 1	821215	14 075	1	18 29 01	33 244 N	118 342 W	1	2	1	1	2	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
California sea lion (Zalophus californianus)															
91	1		60 1	821215	14 167	1	18 30 01	33 251 N	118 354 W	1	1	1	1	2	06
91	1		61 1	821215	14 284	1	18 32 01	33 270 N	118 383 W	1	1	1	1	2	06
91	1		62 1	821215	14 284	1	18 32 01	33 270 N	118 383 W	1	2	1	1	2	06
91	1		63 1	821215	14 304	1	18 32 01	33 291 N	118 359 W	1	1	1	1	2	06
91	1		01 1	821216	10 283	1	19 01 01	33 315 N	118 434 W	1	1	1	2	2	03
91	1		04 1	821216	10 420	1	19 02 01	33 296 N	118 408 W	1	2	1	1	2	10
91	1		05 1	821216	10 427	1	19 02 01	33 290 N	118 415 W	1	2	1	1	2	10
91	1		08 1	821216	11 005	1	19 04 01	33 312 N	118 311 W	1	1	1	2	2	10
91	1		09 1	821216	11 089	1	19 05 01	33 321 N	118 279 W	1	1	2	1	2	04
91	1		10 1	821216	11 190	1	19 07 01	33 274 N	118 282 W	1	1	1	1	2	10
91	1		11 1	821216	11 282	1	19 08 01	33 268 N	118 266 W	1	1	1	2	2	10
91	1		12 1	821216	11 287	1	19 08 01	33 263 N	118 273 W	1	2	2	2	2	10
91	1		16 1	821216	12 099	1	19 15 01	33 201 N	118 165 W	1	1	1	2	2	05
91	1		17 1	821216	12 128	1	19 15 01	33 235 N	118 131 W	1	2	1	2	2	05
91	1		18 1	821216	12 215	1	19 16 02	33 167 N	118 188 W	1	2	1	1	2	10
91	1		19 1	821216	12 218	1	19 16 02	33 165 N	118 190 W	1	2	1	1	2	10
91	5		23 1	821216	12 330	1	19 17 02	33 160 N	118 139 W	1	1	2	2	2	05
91	1		25 1	821216	12 451	1	19 18 01	33 124 N	118 139 W	1	1	1	2	2	11
91	1		26 1	821216	12 578	1	19 19 01	33 175 N	118 180 W	1	2	1	2	2	11
91	3		27 1	821216	12 582	1	19 19 01	33 166 N	118 185 W	1	2	1	2	2	11
91	5		27 2	821216	12 582	1	19 19 01	33 166 N	118 185 W	1	2	2	2	2	11
91	20		27 3	821216	12 582	1	19 19 01	33 166 N	118 185 W	1	2	3	2	2	11
91	1		31 1	821216	13 084	1	19 20 02	33 170 N	118 204 W	1	1	1	2	2	05
91	1		32 1	821216	13 086	1	19 20 02	33 171 N	118 202 W	1	2	1	2	2	05
91	4		33 1	821216	13 107	1	19 21 01	33 176 N	118 222 W	1	1	1	2	2	11
91	1		34 1	821216	13 109	1	19 21 01	33 174 N	118 226 W	1	2	2	2	2	11
91	8		35 1	821216	13 115	1	19 21 01	33 167 N	118 233 W	1	2	1	2	2	11
91	1		38 1	821216	14 156	1	19 31 01	33 259 N	118 376 W	1	2	2	2	2	12
91	1		39 1	821216	14 263	1	19 32 01	33 289 N	118 360 W	1	1	2	2	2	06
91	1		01 1	821217	10 027	1	20 02 01	33 287 N	118 472 W	1	2	2	2	3	09
91	1		02 1	821217	10 097	1	20 03 01	33 268 N	118 387 W	1	1	1	2	3	03
91	1		05 1	821217	10 213	1	20 04 01	33 292 N	118 335 W	1	1	1	3	2	10
91	1		06 1	821217	10 220	1	20 04 01	33 286 N	118 340 W	1	2	2	3	2	10
91	1		09 1	821217	11 373	1	20 16 01	33 191 N	118 160 W	1	2	1	3	2	10
91	1		10 1	821217	11 387	1	20 16 02	33 178 N	118 178 W	1	1	1	2	2	10
91	1		11 1	821217	11 395	1	20 16 02	33 169 N	118 189 W	1	2	1	2	2	10
91	1		12 1	821217	11 398	1	20 16 02	33 164 N	118 194 W	1	2	1	2	2	10
91	2		12 2	821217	11 398	1	20 16 02	33 164 N	118 194 W	1	2	2	2	2	10
91	1		13 1	821217	11 398	1	20 16 02	33 164 N	118 194 W	1	1	1	2	2	10
91	1		16 1	821217	11 501	1	20 17 02	33 151 N	118 152 W	1	1	1	2	2	05
91	1		18 1	821217	12 148	1	20 19 01	33 174 N	118 181 W	1	2	1	2	2	10
91	2		19 1	821217	12 152	1	20 19 01	33 170 N	118 186 W	1	1	2	2	2	10
91	1		20 1	821217	12 152	1	20 19 01	33 170 N	118 186 W	1	2	1	2	2	10

ble 8. continued

rine mmal ecies ode	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
91	5		21 1	821217	12 153	1	20 19 01	33 165 N	118 192 W	1	1	1	2	2	10
91	1		22 1	821217	12 153	1	20 19 01	33 160 N	118 196 W	1	2	1	2	2	10
91	3		23 1	821217	12 154	1	20 19 01	33 160 N	118 196 W	1	1	2	2	2	10
91	10		24 2	821217	12 154	1	20 19 01	33 160 N	118 196 W	1	2	2	2	2	10
91	16		27 1	821217	12 242	1	20 20 01	33 166 N	118 206 W	1	1	1	3	2	05
91	1		28 1	821217	12 244	1	20 20 01	33 168 N	118 204 W	1	1	1	3	2	05
91	1		29 1	821217	12 346	1	20 22 01	33 170 N	118 251 W	1	1	1	3	2	05
91	1		31 1	821217	12 422	1	20 23 01	33 170 N	118 277 W	1	1	1	3	2	11
91	1		32 1	821217	12 537	1	20 25 01	33 183 N	118 312 W	1	2	1	2	2	11
91	1		37 1	821217	13 282	1	20 30 01	33 234 N	118 374 W	1	1	1	3	2	05
91	1		07 2	830203	10 484	1	21 02 01	33 296 N	118 409 W	1	1	1	3	2	10
91	1		12 1	830203	10 565	1	21 03 01	33 265 N	118 393 W	1	1	1	2	2	03
91	1		13 1	830203	10 572	1	21 03 01	33 271 N	118 384 W	1	1	1	2	2	03
91	1		14 1	830203	10 599	1	21 03 01	33 303 N	118 343 W	1	1	1	2	2	03
91	1		15 1	830203	11 093	1	21 04 01	33 310 N	118 323 W	1	2	1	2	2	10
91	1		17 2	830203	11 135	1	21 05 01	33 288 N	118 317 W	1	2	1	2	2	03
91	1		18 1	830203	11 138	1	21 05 01	33 291 N	118 315 W	1	1	1	2	2	03
91	2		21 1	830203	11 224	1	21 06 02	33 285 N	118 298 W	1	2	1	2	2	10
91	3		22 1	830203	11 232	1	21 06 02	33 277 N	118 305 W	1	2	1	2	2	10
91	2		23 1	830203	11 232	1	21 06 02	33 277 N	118 305 W	1	1	1	2	2	10
91	1		24 1	830203	11 233	1	21 06 02	33 277 N	118 305 W	1	2	1	2	2	10
91	1		25 1	830203	11 234	1	21 06 02	33 275 N	118 308 W	1	2	1	2	2	10
91	25		26 1	830203	11 252	1	21 07 01	33 269 N	118 288 W	1	1	1	2	2	10
1	2		27 1	830203	11 253	1	21 07 01	33 271 N	118 285 W	1	1	1	2	2	10
1	1		29 1	830203	11 352	1	21 08 01	33 268 N	118 269 W	1	1	1	2	2	10
1	1		30 1	830203	11 352	1	21 08 01	33 268 N	118 269 W	1	2	1	2	2	10
1	1		36 1	830203	12 090	1	21 14 01	33 216 N	118 174 W	1	2	1	2	2	11
1	1		38 1	830203	12 140	1	21 15 01	33 216 N	118 150 W	1	2	1	2	2	04
1	1		39 1	830203	12 218	1	21 16 01	33 185 N	118 164 W	1	2	1	2	2	11
1	2		40 1	830203	12 221	1	21 16 01	33 183 N	118 168 W	1	1	1	2	2	11
1	1		41 1	830203	12 224	1	21 16 01	33 181 N	118 171 W	1	1	1	2	2	11
1	1		43 1	830203	12 247	1	21 16 01	33 154 N	118 203 W	1	1	1	2	2	11
1	1		46 1	830203	12 349	1	21 17 01	33 163 N	118 134 W	1	1	1	2	2	04
1	1		47 1	830203	12 381	1	21 17 01	33 199 N	118 093 W	1	1	1	2	2	04
1	1		48 1	830203	12 424	1	21 18 01	33 143 N	118 112 W	1	1	2	2	5	13
1	1		50 1	830203	12 466	1	21 18 01	33 129 N	118 127 W	1	1	2	2	5	13
1	1		52 1	830203	12 572	1	21 19 01	33 179 N	118 180 W	1	1	1	2	2	12
1	1		54 1	830203	13 063	1	21 20 01	33 165 N	118 208 W	1	2	1	2	2	06
1	1		55 1	830203	13 082	1	21 21 01	33 179 N	118 216 W	1	2	1	2	2	07
1	1		56 1	830203	13 088	1	21 21 01	33 170 N	118 226 W	1	1	2	2	2	07
1	1		60 1	830203	13 188	1	21 22 01	33 156 N	118 264 W	1	1	1	2	2	06
1	1		61 1	830203	13 191	1	21 22 01	33 160 N	118 261 W	1	2	2	2	2	06
1	1		62 1	830203	13 195	1	21 22 01	33 166 N	118 254 W	1	1	1	2	2	06

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
91	8		63 1	830203	13 201	1	21 22 01	33 172 N	118 248 W	1	1	2	2	2	06
91	6		64 1	830203	13 202	1	21 22 01	33 176 N	118 245 W	1	2	2	2	2	06
91	1		66 1	830203	13 231	1	21 23 01	33 177 N	118 267 W	1	1	2	2	2	12
91	1		69 1	830203	13 296	1	21 23 01	33 150 N	118 301 W	1	2	2	2	2	12
91	2		72 1	830203	13 367	1	21 24 01	33 180 N	118 283 W	1	2	1	2	2	06
91	4		74 1	830203	13 373	1	21 24 01	33 186 N	118 278 W	1	1	1	2	2	06
91	1		76 1	830203	13 451	1	21 25 01	33 188 N	118 308 W	1	1	1	2	2	12
91	1		79 1	830203	13 553	1	21 26 01	33 207 N	118 302 W	1	1	1	2	2	06
91	1		80 1	830203	14 048	1	21 28 01	33 200 N	118 364 W	1	1	1	2	2	06
91	1		82 1	830203	14 094	1	21	33 251 N	118 309 W	2			2	2	
91	1		83 2	830203	14 192	1	21 30 01	33 239 N	118 367 W	1	1	2	2	2	06
91	1		90 1	830203	14 312	1	21 32 01	33 270 N	118 383 W	1	1	2	2	2	06
91	1		01 1	830204	10 413	1	22 02 01	33 298 N	118 418 W	1	1	1	3	2	10
91	1		04 1	830204	11 056	1	22 05 01	33 305 N	118 304 W	1	1	1	3	2	04
91	4		10 1	830204	12 147	1	22 16 01	33 202 N	118 152 W	1	2	2	3	2	11
91	2		12 2	830204	12 148	1	22 16 01	33 198 N	118 156 W	1	1	1	3	2	11
91	1		13 1	830204	12 282	1	22 17 01	33 155 N	118 150 W	1	1	2	3	2	05
91	1		14 1	830204	12 293	1	22 17 01	33 166 N	118 137 W	1	1	1	3	2	05
91	1		15 1	830204	12 305	1	22 17 01	33 180 N	118 122 W	1	2	1	3	2	05
91	1		18 1	830204	13 056	1	22 21 01	33 176 N	118 225 W	1	1	1	3	5	13
91	1		20 1	830204	13 058	1	22 21 01	33 173 N	118 228 W	1	1	1	3	5	13
91	1		21 1	830204	13 075	1	22 21 01	33 154 N	118 251 W	1	2	1	3	5	13
91	1		30 1	830204	14 148	1	22 32 01	33 280 N	118 374 W	1	2	2	3	5	13
91	1		31 1	830204	14 153	1	22 32 01	33 287 N	118 367 W	1	1	1	3	5	13
91	1		02 1	830205	10 343	1	23 02 01	33 356 N	118 342 W	1	2	1	2	2	10
91	1		05 1	830205	10 405	1	23 02 02	33 295 N	118 413 W	1	2	1	2	2	10
91	1		09 1	830205	10 542	1	23 03 01	33 307 N	118 346 W	1	2	1	2	5	13
91	1		11 1	830205	11 019	1	23 04 01	33 301 N	118 331 W	1	1	2	2	2	10
91	1		13 1	830205	11 028	1	23 04 01	33 293 N	118 342 W	1	1	1	2	2	10
91	1		13 2	830205	11 028	1	23 04 01	33 293 N	118 342 W	1	1	2	2	2	10
91	3		16 1	830205	11 086	1	23 05 01	33 288 N	118 317 W	1	2	2	2	5	13
91	1		22 1	830205	11 213	1	23 07 01	33 279 N	118 278 W	1	1	1	2	5	13
91	1		23 1	830205	11 235	1	23 07 01	33 309 N	118 247 W	1	2	1	2	5	13
91	1		24 1	830205	11 300	1	23 08 01	33 271 N	118 268 W	1	2	1	1	5	13
91	2		25 1	830205	11 304	1	23 08 01	33 266 N	118 273 W	1	2	1	1	5	13
91	12		29 2	830205	11 434	1	23	33 318 N	118 190 W	2			1	5	
91	3		30 1	830205	11 460	1	23 10 01	33 293 N	118 193 W	1	1	1	1	5	13
91	2		33 1	830205	12 178	1	23 15 01	33 197 N	118 170 W	1	1	2	2	5	13
91	3		35 1	830205	12 285	1	23 16 01	33 188 N	118 172 W	1	2	1	2	5	13
91	1		37 1	830205	12 356	1	23 16 01	33 134 N	118 223 W	1	1	1	2	5	13
91	1		39 1	830205	12 460	1	23 17 01	33 163 N	118 140 W	1	2	1	2	5	13
91	1		41 1	830205	12 478	1	23 17 01	33 180 N	118 118 W	1	2	1	2	5	13
91	1		42 1	830205	12 553	1	23 18 01	33 169 N	118 089 W	1	1	1	2	5	13

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ine nal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
					California sea lion (Zalophus californianus)								
	1		43 1	830205	12 557	1	23 18 01	33 165 N 118 094 W	1	1	1	2	5 13
	10		45 1	830205	13 094	1	23	33 184 N 118 175 W	2			2	5
	1		46 1	830205	13 101	1	23 19 01	33 173 N 118 184 W	1	1	1	2	5 13
	1		59 1	830205	13 358	1	23 23 01	33 167 N 118 275 W	1	1	1	2	5 13
	1		67 1	830205	14 136	1	23 30 01	33 217 N 118 399 W	1	2	1	2	5 13
	1		70 1	830205	14 270	1	23 32 01	33 260 N 118 404 W	1	1	1	2	5 13
	1		03 1	830206	10 168	1	24 01 01	33 315 N 118 438 W	1	2	2	2	5 13
	3		05 1	830206	10 331	1	24 02 01	33 295 N 118 413 W	1	2	1	2	5 13
	1		06 1	830206	10 338	1	24 02 01	33 287 N 118 423 W	1	2	1	2	5 13
	1		12 1	830206	11 012	1	24 05 01	33 285 N 118 321 W	1	1	1	2	5 13
	6		13 1	830206	11 016	1	24 05 01	33 291 N 118 313 W	1	2	1	2	5 13
	1		16 1	830206	11 164	1	24 06 01	33 284 N 118 300 W	1	1	2	2	5 13
	6		19 1	830206	11 197	1	24	33 277 N 118 289 W	2			2	5
	3		20 1	830206	11 198	1	24	33 272 N 118 294 W	2			2	5
	3		21 1	830206	11 208	1	24 07 01	33 278 N 118 281 W	1	2	1	2	5 13
	1		23 1	830206	11 338	1	24 09 01	33 268 N 118 246 W	1	1	1	2	5 13
	1		26 1	830206	12 102	1	24 13 02	33 270 N 118 143 W	1	1	1	2	5 13
	2		28 2	830206	12 246	1	24 15 01	33 197 N 118 170 W	1	1	1	2	5 13
	6		29 1	830206	12 247	1	24 15 01	33 201 N 118 168 W	1	1	1	2	5 13
	2		30 1	830206	12 272	1	24 15 01	33 205 N 118 164 W	1	1	1	2	5 13
	1		31 1	830206	12 272	1	24 15 01	33 205 N 118 164 W	1	2	1	2	5 13
	1		32 1	830206	12 338	1	24 16 01	33 217 N 118 130 W	1	1	2	2	5 13
	1		33 1	830206	12 358	1	24 16 01	33 197 N 118 156 W	1	1	1	2	5 13
	1		36 1	830206	12 563	1	24 18 01	33 185 N 118 069 W	1	1	1	2	5 13
	1		37 1	830206	12 571	1	24 18 01	33 177 N 118 077 W	1	2	1	2	5 13
	1		38 1	830206	13 014	1	24 18 02	33 129 N 118 130 W	1	2	1	2	5 13
	1		39 1	830206	13 138	1	24 19 01	33 175 N 118 182 W	1	2	1	2	5 13
	1		41 1	830206	13 260	1	24 21 01	33 178 N 118 219 W	1	2	2	2	2 12
	7		44 1	830206	13 352	1	24 22 01	33 178 N 118 244 W	1	1	1	2	5 13
	7		45 1	830206	13 353	1	24 22 01	33 180 N 118 241 W	1	1	2	2	5 13
	1		46 1	830206	13 356	1	24 22 01	33 184 N 118 238 W	1	1	2	2	5 13
	3		49 1	830206	13 429	1	24 23 01	33 155 N 118 297 W	1	2	1	2	5 13
	1		57 1	830206	14 370	1	24 31 02	33 237 N 118 408 W	1	1	1	2	2 12
	3		01 1	831212	10 408	1	25 01 01	33 306 N 118 447 W	1	1	1	2	1 03
	3		02 1	831212	10 415	1	25 01 01	33 313 N 118 440 W	1	1	2	2	1 03
	1		03 1	831212	10 423	1	25 01 01	33 322 N 118 432 W	1	1	1	2	1 03
	1		04 1	831212	10 443	1	25 01 01	33 348 N 118 406 W	1	1	1	2	1 03
	1		07 1	831212	11 163	1	25 04 01	33 317 N 118 306 W	1	1	1	2	1 10
	1		08 1	831212	11 175	1	25 04 01	33 306 N 118 322 W	1	2	1	2	1 10
	1		10 1	831212	11 189	1	25 04 01	33 290 N 118 343 W	1	2	1	2	1 10
	1		11 1	831212	11 330	1	25 07 01	33 275 N 118 283 W	1	1	2	2	1 04
	1		12 1	831212	11 347	1	25 07 01	33 287 N 118 270 W	1	1	2	2	1 04
	1		15 1	831212	11 455	1	25 09 01	33 257 N 118 250 W	1	2	1	2	1 05

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
91	1		16 1	831212	12 065	1	25 12 01	33 251 N	118 181 W	1	1	1	3	1	11
91	1		21 1	831212	12 470	1	25 17 01	33 162 N	118 142 W	1	1	2	3	1	05
91	1		22 1	831212	12 580	1	25 18 01	33 142 N	118 122 W	1	1	1	3	1	11
91	1		24 1	831212	13 354	1	25 22 01	33 185 N	118 240 W	1	1	1	3	1	05
91	1		25 1	831212	13 481	1	25 24 01	33 184 N	118 288 W	1	2	1	3	2	05
91	1		27 1	831212	14 177	1	25 29 01	33 257 N	118 329 W	1	2	1	3	2	12
91	1		02 1	831213	10 439	1	26 02 01	33 297 N	118 408 W	1	2	1	3	1	10
91	1		03 1	831213	11 013	1	26 04 01	33 327 N	118 298 W	1	2	1	3	1	10
91	1	30	04 1	831213	11 078	1	26 05 01	33 303 N	118 300 W	1	1	2	3	1	04
91	1		05 1	831213	11 091	1	26 05 01	33 317 N	118 287 W	1	1	3	3	1	04
91	2		06 1	831213	11 160	1	26 06 01	33 295 N	118 282 W	1	2	2	3	1	10
91	1		07 1	831213	11 167	1	26 06 01	33 288 N	118 290 W	1	2	1	3	1	10
91	1	34	11 1	831213	11 492	1	26 11 01	33 274 N	118 178 W	1	1	2	2	1	04
91	1		12 1	831213	12 082	1	26 14 01	33 211 N	118 182 W	1	2	2	2	1	11
91	1		13 1	831213	12 122	1	26 15 01	33 215 N	118 153 W	1	2	1	3	1	05
91	1		14 1	831213	12 129	1	26 15 01	33 224 N	118 143 W	1	2	1	3	1	05
91	1	32	15 1	831213	12 132	1	26 15 01	33 226 N	118 140 W	1	1	2	3	1	05
91	3		17 1	831213	12 251	1	26 16 01	33 197 N	118 153 W	1	2	1	2	1	11
91	1		18 1	831213	12 273	1	26 16 01	33 172 N	118 184 W	1	2	1	3	1	11
91	1		19 1	831213	12 452	1	26 18 01	33 182 N	118 070 W	1	2	1	2	1	11
91	1		20 1	831213	12 475	1	26 18 01	33 152 N	118 102 W	1	2	2	2	1	11
91	1	35	21 1	831213	12 479	1	26 18 02	33 149 N	118 105 W	1	1	2	3	1	11
91	1	28	26 1	831213	13 584	1	26 28 01	33 235 N	118 326 W	1	1	2	3	1	06
91	1	28	27 1	831213	14 249	1	26 32 01	33 313 N	118 339 W	1	2	2	3	2	06
91	1		01 1	831214	10 497	1	27 02 01	33 347 N	118 350 W	1	2	1	3	1	10
91	1		02 1	831214	10 536	1	27 02 01	33 306 N	118 399 W	1	2	1	3	1	10
91	1		03 1	831214	10 543	1	27 02 01	33 297 N	118 407 W	1	2	2	3	1	10
91	1		04 1	831214	10 548	1	27 02 01	33 293 N	118 412 W	1	2	1	3	1	10
91	30		05 1	831214	10 561	1	27 02 01	33 279 N	118 429 W	1	2	1	3	1	10
91	1	52	06 1	831214	11 110	1	27 03 01	33 312 N	118 346 W	1	1	1	3	1	04
91	1	63	07 1	831214	11 170	1	27 04 01	33 331 N	118 294 W	1	1	1	2	1	10
91	1	52	08 1	831214	11 202	1	27 04 01	33 301 N	118 328 W	1	1	1	2	1	10
91	1	36	09 1	831214	11 229	1	27 05 01	33 292 N	118 314 W	1	1	1	2	1	04
91	1	42	10 1	831214	11 233	1	27 05 01	33 296 N	118 308 W	1	2	1	2	1	04
91	1	47	12 1	831214	11 247	1	27 05 01	33 312 N	118 293 W	1	1	1	2	1	04
91	1	25	13 1	831214	11 299	1	27 06 01	33 316 N	118 261 W	1	2	2	2	1	10
91	1	18	14 1	831214	11 310	1	27 06 01	33 304 N	118 274 W	1	2	2	2	1	10
91	1	42	15 1	831214	11 326	1	27 06 01	33 287 N	118 295 W	1	2	1	2	1	10
91	2	35	16 1	831214	11 352	1	27 07 01	33 274 N	118 282 W	1	2	1	2	1	04
91	1	37	17 1	831214	11 357	1	27 07 01	33 280 N	118 276 W	1	1	1	2	1	04
91	1	47	18 1	831214	11 358	1	27 07 01	33 282 N	118 274 W	1	2	1	2	1	04
91	1	49	19 1	831214	11 443	1	27 08 01	33 279 N	118 254 W	1	2	1	2	1	10
91	1	21	21 1	831214	11 493	1	27 09 01	33 285 N	118 221 W	1	1	2	2	1	04

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ine mal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
1	1	50	22 1	831214	11 573	1	27 10 01	33 276 N	118 204 W	1	2	1	2	1	10
1	1	30	24 1	831214	11 576	1	27 10 01	33 274 N	118 207 W	1	2	2	2	1	10
1	1	35	25 1	831214	11 578	1	27 10 01	33 272 N	118 210 W	1	1	2	2	1	10
1	2	61	26 1	831214	12 022	1	27 11 01	33 264 N	118 193 W	1	1	1	2	1	05
1	1	37	27 1	831214	12 022	1	27 11 01	33 264 N	118 193 W	1	2	1	2	1	05
1	1	23	31 1	831214	12 310	1	27 15 01	33 236 N	118 127 W	1	1	2	1	1	05
1	1	52	32 1	831214	12 373	1	27 16 01	33 191 N	118 160 W	1	2	1	1	1	11
1	1	45	33 1	831214	12 415	1	27 16 01	33 145 N	118 211 W	1	2	1	1	1	11
1	2	30	34 1	831214	12 460	1	27 17 01	33 111 N	118 201 W	1	2	2	2	1	05
1	1	33	35 1	831214	12 462	1	27 17 01	33 114 N	118 198 W	1	1	2	2	1	05
1	1	41	36 1	831214	12 470	1	27 17 01	33 123 N	118 187 W	1	1	2	2	1	05
1	1	37	37 1	831214	12 493	1	27 17 01	33 149 N	118 158 W	1	1	2	2	1	05
1	2	35	39 1	831214	12 498	1	27 17 01	33 156 N	118 150 W	1	1	2	2	1	05
1	1	35	40 1	831214	12 502	1	27 17 01	33 158 N	118 146 W	1	2	2	2	1	05
1	1	23	41 1	831214	12 521	1	27 17 01	33 180 N	118 121 W	1	1	3	2	1	05
1	1		42 1	831214	12 533	1	27 17 01	33 192 N	118 106 W	1	1	2	2	1	05
1	1		43 1	831214	12 542	1	27 17 01	33 202 N	118 094 W	1	1	3	2	1	05
1	1	29	49 1	831214	13 089	1	27 18 01	33 117 N	118 144 W	1	1	2	2	1	11
1	3	32	50 1	831214	13 094	1	27 18 01	33 110 N	118 154 W	1	1	2	2	1	11
1	3	30	51 1	831214	13 100	1	27 18 01	33 104 N	118 161 W	1	2	2	2	1	11
1	1	32	52 1	831214	13 102	1	27 18 01	33 101 N	118 163 W	1	1	2	2	1	11
1	1		56 1	831214	13 234	1	27 19 01	33 156 N	118 201 W	1	2	1	2	1	11
1	1		57 1	831214	13 321	1	27 20 01	33 178 N	118 198 W	1	2	1	3	1	06
1	1	27	63 1	831214	14 251	1	27 29 01	33 215 N	118 379 W	1	1	2	3	2	12
1	1	57	64 1	831214	14 314	1	27 30 01	33 265 N	118 348 W	1	2	1	3	2	06
1	1	57	66 1	831214	14 423	1	27 32 01	33 280 N	118 375 W	1	1	1	2	2	06
1	2		67 1	831214	14 423	1	27 32 01	33 280 N	118 375 W	1	2	1	2	2	06
1	1		67 2	831214	14 423	1	27 32 01	33 280 N	118 375 W	1	2	2	2	2	06
	1		68 1	831214	14 427	1	27 32 01	33 285 N	118 370 W	1	2	2	2	2	06
	1	35	69 1	831214	14 432	1	27 32 01	33 291 N	118 363 W	1	1	2	2	2	06
	1	37	70 1	831214	14 444	1	27 32 01	33 303 N	118 351 W	1	1	1	2	2	06
	1		01 1	840109	11 318	1	28 02 01	33 270 N	118 432 W	1	2	1	2	2	10
	1	20	03 3	840109	11 418	1	28 03 01	33 318 N	118 338 W	1	1	2	2	2	04
	1	58	04 1	840109	11 559	1	28 05 01	33 297 N	118 308 W	1	2	1	1	2	04
	1	35	06 1	840109	12 085	1	28 07 01	33 278 N	118 280 W	1	1	1	2	2	04
	1	51	09 1	840109	12 420	1	28 11 01	33 295 N	118 162 W	1	1	1	2	2	05
	1	49	10 1	840109	12 547	1	28 13 01	33 270 N	118 141 W	1	1	1	2	2	05
	1	54	12 1	840109	13 037	1	28 15 01	33 209 N	118 162 W	1	1	1	2	2	05
	1	40	19 1	840109	14 491	1	28 28 01	33 247 N	118 310 W	1	2	1	3	2	06
	1	53	01 1	840110	11 023	1	29 01 01	33 327 N	118 426 W	1	2	1	3	2	04
	1	49	02 1	840110	11 111	1	29 02 01	33 359 N	118 334 W	1	2	1	3	2	10
	1	48	04 1	840110	11 159	1	29 02 01	33 306 N	118 396 W	1	2	1	3	2	10
	1	50	09 1	840110	11 176	1	29 02 01	33 287 N	118 419 W	1	1	1	3	2	10

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
91	1	30	10 1	840110	11 237	1	29 03 01	33 263 N	118 401 W	1	1	2	3	2	04
91	1	51	15 1	840110	11 272	1	29 03 02	33 302 N	118 357 W	1	1	1	2	2	04
91	1	49	16 1	840110	11 300	1	29 03 02	33 335 N	118 321 W	1	1	1	2	2	04
91	1	36	17 1	840110	11 367	1	29 04 01	33 296 N	118 334 W	1	1	2	2	2	10
91	1	43	18 1	840110	11 431	1	29 05 01	33 335 N	118 264 W	1	1	2	3	2	04
91	1	40	21 1	840110	11 545	1	29 06 01	33 279 N	118 305 W	1	1	1	2	2	11
91	1	32	22 1	840110	11 566	1	29 07 01	33 278 N	118 280 W	1	2	2	2	2	05
91	1	32	25 1	840110	12 060	1	29 08 01	33 271 N	118 264 W	1	2	2	2	2	11
91	1	33	27 1	840110	12 090	1	29 09 01	33 271 N	118 239 W	1	2	2	2	2	05
91	1	73	28 1	840110	12 092	1	29 09 01	33 273 N	118 237 W	1	1	1	2	2	05
91	1	48	29 1	840110	12 305	1	29 12 01	33 246 N	118 191 W	1	1	1	3	2	11
91	1	60	31 1	840110	12 584	1	29 16 01	33 172 N	118 184 W	1	2	1	3	2	11
91	1	41	33 1	840110	13 081	1	29 17 02	33 147 N	118 157 W	1	1	1	2	2	05
91	1	32	34 1	840110	13 197	1	29 18 01	33 151 N	118 106 W	1	1	2	2	2	11
91	1		35 1	840110	13 199	1	29 18 01	33 150 N	118 108 W	1	2	1	2	2	11
91	1	42	44 1	840110	14 558	1	29 32 01	33 274 N	118 384 W	1	1	1	2	2	06
91	1	69	06 1	840111	11 261	1	30 03 03	33 327 N	118 329 W	1	1	1	2	2	04
91	1	65	07 1	840111	11 262	1	30 03 03	33 331 N	118 324 W	1	1	1	2	2	04
91	1	23	08 1	840111	11 307	1	30 04 01	33 331 N	118 293 W	1	1	2	1	2	11
91	1	32	09 1	840111	11 374	1	30 05 01	33 299 N	118 307 W	1	2	1	2	2	05
91	2		10 2	840111	11 418	1	30	33 343 N	118 291 W	2			1	2	
91	1	53	12 1	840111	11 467	1	30 06 01	33 289 N	118 292 W	1	1	1	1	2	11
91	1	70	13 1	840111	11 504	1	30 07 01	33 286 N	118 273 W	1	1	1	1	2	05
91	1	60	14 1	840111	11 529	1	30 07 01	33 313 N	118 242 W	1	1	1	1	2	05
91	1	32	15 1	840111	12 027	1	30 09 01	33 272 N	118 239 W	1	1	1	1	2	05
91	1	41	19 1	840111	12 513	1	30 16 01	33 200 N	118 150 W	1	1	1	2	2	11
91	1	40	21 1	840111	12 539	1	30 16 02	33 172 N	118 185 W	1	2	1	1	2	11
91	27	73	25 1	840111	13 069	1	30 17 01	33 151 N	118 159 W	1	1	1	2	2	05
91	1	35	26 1	840111	13 091	1	30 17 01	33 173 N	118 130 W	1	2	1	2	2	05
91	1		27 1	840111	13 094	1	30 17 01	33 175 N	118 128 W	1	1	2	2	2	05
91	1	52	28 1	840111	13 095	1	30 17 01	33 177 N	118 125 W	1	1	1	2	2	05
91	2	35	29 1	840111	13 182	1	30 18 01	33 152 N	118 103 W	1	2	1	1	2	11
91	1	62	30 1	840111	13 185	1	30 18 01	33 148 N	118 109 W	1	1	1	1	2	11
91	1	51	31 1	840111	13 191	1	30 18 01	33 142 N	118 116 W	1	1	1	1	2	11
91	1	70	36 1	840111	13 518	1	30 22 01	33 174 N	118 254 W	1	1	2	2	2	06
91	1	60	40 1	840111	14 174	1	30 26 01	33 207 N	118 312 W	1	2	1	2	2	06
91	1	40	48 1	840111	14 339	1	30 29 01	33 231 N	118 361 W	1	1	1	2	2	12
91	1	27	50 1	840111	14 416	1	30 30 01	33 258 N	118 354 W	1	1	2	2	2	06
91	7	65	54 1	840111	14 585	1	30 32 02	33 318 N	118 341 W	1	1	1	1	2	06
91	1	61	55 1	840111	15 005	1	30 32 02	33 337 N	118 319 W	1	1	1	1	2	06
91	1	54	01 1	840112	11 070	2	31 02 01	34 025 N	118 588 W	1	1	1	1	2	10
91	1		02 1	840112	11 216	2	31 04 01	33 589 N	118 583 W	1	2	1	1	2	10
91	1	69	04 1	840112	11 288	2	31 05 01	33 596 N	118 551 W	1	1	1	2	2	04

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ine mal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
1	1	46	06 1	840112	11 435	2	31 07 01	33 594 N	118 498 W	1	2	1	2	2	04
1	1	49	10 1	840112	12 368	3	31 02 01	33 505 N	118 292 W	1	1	1	1	2	05
1	1	36	13 1	840112	13 185	3	31 08 01	33 435 N	118 241 W	1	2	1	1	2	05
1	1	59	16 1	840112	13 338	3	31 11 01	33 417 N	118 201 W	1	1	1	1	2	12
1	1	44	23 1	840112	14 226	3	31 15 01	33 334 N	118 164 W	1	1	1	1	2	12
1	1	44	24 1	840112	14 268	3	31 16 01	33 330 N	118 137 W	1	1	1	1	2	06
1	1	53	26 1	840112	14 360	3	31 17 01	33 326 N	118 133 W	1	1	1	1	2	12
1	1	54	27 1	840112	14 441	3	31 18 01	33 343 N	118 074 W	1	1	1	1	2	06
1	1	39	28 1	840112	14 474	3	31 19 01	33 331 N	118 064 W	1	1	2	1	2	12
1	1		30 1	840112	14 540	3	31 20 01	33 280 N	118 100 W	1	2	1	1	2	06
1	1	44	02 1	840113	10 403	4	32 02 01	33 044 N	118 404 W	1	1	1	3	2	10
1	2	72	03 1	840113	10 444	4	32 02 01	33 003 N	118 452 W	1	1	1	3	2	10
1	2	45	04 1	840113	10 446	4	32 02 01	33 001 N	118 454 W	1	2	1	3	2	10
1	1	41	08 1	840113	11 207	4	32 06 02	33 006 N	118 321 W	1	1	2	2	2	10
1	1		52 1	840911	11 490	7	03 10 01	41 405 N	124 088 W	1	1	1	2	4	12
1	1		66 1	840911	12 330	7	03 10 01	41 091 N	124 027 W	1	1	2	2	4	12
1	1		84 1	840911	15 261	7	03 13 01	41 038 N	124 097 W	1	1	1	3	2	08
1	1		93 1	840911	15 440	7	03 14 01	41 234 N	124 047 W	2			2	2	08
1	1		04 1	840913	08 160	7	04 02 01	34 358 N	120 388 W	1	2	1	2	3	04
1	1		05 1	840913	08 180	7	04 02 01	34 386 N	120 378 W	1	1	2	2	3	04
1	1		11 1	840913	08 500	7	04 02 01	35 113 N	120 496 W	1	1	1	2	3	04
1	1		18 1	840913	09 200	7	04 04 01	35 392 N	121 151 W	1	2	1	1	2	05
1	5		19 1	840913	09 220	7	04 04 01	35 397 N	121 171 W	1	1	1	1	2	05
1	1		20 1	840913	09 231	7	04 04 01	35 404 N	121 173 W	1	1	1	1	2	05
1	3		22 1	840913	09 340	7	04 04 01	35 531 N	121 280 W	1	2	2	1	2	05
1	5		23 1	840913	09 350	7	04 04 01	35 544 N	121 283 W	1	1	2	1	2	05
1	1		24 1	840913	09 360	7	04 04 01	35 559 N	121 288 W	1	2	1	1	2	05
1	1		26 1	840913	09 470	7	04 04 01	36 073 N	121 386 W	1	2	1	1	2	05
1	2		27 1	840913	09 500	7	04 04 01	36 100 N	121 417 W	1	1	2	1	2	05
1	2		27 2	840913	09 500	7	04 04 01	36 100 N	121 417 W	1	1	1	1	2	05
1	2		27 3	840913	09 500	7	04 04 01	36 100 N	121 417 W	1	2	1	1	2	05
1	3		28 1	840913	09 510	7	04 04 01	36 111 N	121 427 W	1	2	2	1	2	05
1	4		28 2	840913	09 510	7	04 04 01	36 111 N	121 427 W	1	2	1	1	2	05
1	2		28 3	840913	09 510	7	04 04 01	36 111 N	121 427 W	1	2	2	1	2	05
1	24		28 4	840913	09 510	7	04 04 01	36 111 N	121 427 W	1	1	1	1	2	05
1	4		29 1	840913	09 550	7	04 04 01	36 135 N	121 476 W	1	1	1	1	2	05
1	4		29 2	840913	09 555	7	04 04 01	36 136 N	121 477 W	1	2	1	1	2	05
1	2		30 1	840913	09 560	7	04 04 01	36 138 N	121 489 W	1	1	2	1	2	05
1	2		31 1	840913	09 564	7	04 04 01	36 139 N	121 490 W	1	2	1	1	2	05
1	1		32 1	840913	09 568	7	04 04 01	36 140 N	121 491 W	1	2	2	1	2	05
1	1		33 1	840913	09 570	7	04 04 01	36 148 N	121 507 W	1	1	1	1	2	05
1	1		34 1	840913	09 573	7	04 04 01	36 153 N	121 507 W	1	2	1	1	2	05
1	1		35 1	840913	10 070	7	04 05 01	36 264 N	121 558 W	1	2	1	2	2	05

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								California sea lion (Zalophus californianus)					
91	6		36 1	840913	10 075	7	04 05 01	36 272 N 121 561 W	1	1	1	2	2 05
91	1		37 1	840913	10 110	7	04 05 01	36 317 N 121 569 W	1	1	2	2	2 05
91	1		38 1	840913	10 115	7	04 05 01	36 318 N 121 558 W	1	2	1	2	2 05
91	1		40 1	840913	10 130	7	04 06 01	36 345 N 121 588 W	1	1	1	2	2 05
91	1		41 1	840913	10 140	7	04 06 01	36 357 N 121 582 W	1	2	1	2	2 05
91	1		42 1	840913	10 160	7	04 06 01	36 370 N 121 570 W	1	2	1	2	2 05
91	2		43 1	840913	10 190	7	04 06 01	36 378 N 121 544 W	1	2	1	2	2 05
91	2		44 1	840913	10 225	7	04 07 01	36 367 N 121 525 W	1	2	1	2	2 05
91	1		45 1	840913	10 240	7	04 07 01	36 383 N 121 508 W	1	1	1	2	2 05
91	6		46 1	840913	10 360	7	04 07 01	36 476 N 121 481 W	1	1	1	2	2 05
91	2		53 1	840913	13 090	7	04 10 01	37 245 N 122 263 W	1	1	2	2	4 06
91	3		60 1	840913	14 350	7	04 13 01	38 395 N 123 253 W	1	2	1	2	1 07
91	1		61 1	840913	14 410	7	04 13 01	38 453 N 123 321 W	1	2	1	2	1 07
91	2		62 1	840913	14 450	7	04 14 01	38 495 N 123 375 W	1	1	1	2	2 08
91	1		67 1	840913	15 050	7	04 14 01	39 130 N 123 470 W	1	1	1	2	2 08
91	1		70 1	840913	16 160	7	04 15 01	39 437 N 123 502 W	1	2	1	2	2 08
91	1		71 1	840913	16 200	7	04 15 01	39 492 N 123 512 W	1	2	1	2	2 08
91	3		73 1	840913	16 250	7	04 15 01	39 534 N 123 555 W	1	2	1	2	2 08
91	1		73 2	840913	16 250	7	04 15 01	39 534 N 123 555 W	1	1	1	2	2 08
91	1		74 1	840913	16 270	7	04 16 01	39 548 N 123 571 W	1	1	2	2	2 10
91	1		78 1	840913	16 420	7	04 16 01	40 061 N 124 073 W	1	1	2	2	2 10
91	1		83 1	840913	16 543	7	04 16 01	40 116 N 124 169 W	1	2	2	2	2 10
91	1		87 1	840913	17 030	7	04 17 01	40 181 N 124 216 W	1	1	1	3	2 09
91	1		88 1	840913	17 040	7	04 17 01	40 196 N 124 216 W	1	2	1	3	2 09
91	2		90 1	840913	17 140	7	04 18 01	40 343 N 124 217 W	1	2	1	3	3 08
91	1		92 1	840913	17 265	7	04 19 01	40 458 N 124 142 W	1	1	1	2	3 08
91	1		04 1	840914	08 050	7	05 02 01	40 394 N 124 187 W	1	2	1	1	5 13
91	1		07 1	840914	08 195	7	05 02 01	40 272 N 124 246 W	1	2	1	1	5 13
91	1		17 1	840914	09 190	7	05 06 01	39 179 N 123 485 W	1	2	1	2	2 10
91	1		24 1	840914	09 560	7	05 08 01	38 477 N 123 354 W	1	1	1	2	1 10
91	2		26 1	840914	10 100	7	05 09 01	38 333 N 123 194 W	1	1	2	2	1 12
91	1		29 1	840914	11 250	7	05 11 01	38 143 N 123 004 W	1	1	2	2	1 12
91	1		31 1	840914	11 360	7	05 11 01	37 598 N 123 018 W	1	1	2	2	1 12
91	1		33 1	840914	12 190	7	05 13 01	37 217 N 122 248 W	1	1	1	2	4 12
91	8		34 1	840914	12 210	7	05 13 01	37 185 N 122 249 W	1	1	1	2	4 12
91	2		36 1	840914	12 320	7	05 13 01	37 071 N 122 207 W	1	1	2	2	4 12
91	1		37 1	840914	12 380	7	05 14 01	37 004 N 122 121 W	1	1	1	2	4 12
91	3		38 1	840914	12 480	7	05 14 01	36 568 N 121 530 W	1	2	1	2	4 12
91	4		39 1	840914	12 490	7	05 14 01	36 554 N 121 479 W	1	2	2	2	4 12
91	6		43 1	840914	12 590	7	05 14 01	36 462 N 121 483 W	1	2	1	2	4 12
91	1		44 1	840914	13 080	7	05 15 01	36 368 N 121 531 W	1	1	2	3	4 11
91	1		45 1	840914	13 110	7	05 15 01	36 375 N 121 569 W	1	2	1	3	4 11
91	1		50 1	840914	14 010	7	05 17 01	35 253 N 120 532 W	1	1	1	3	1 01

le 8. continued

ine mal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
1	1		51 1	840914	14 015	7	05 17 01	35 246 N	120 527 W	1	1	1	3	1	01
1	1		52 1	840914	14 090	7	05 18 01	35 134 N	120 520 W	1	1	2	3	1	01
1	15		52 2	840914	14 090	7	05 18 01	35 134 N	120 520 W	1	1	2	3	1	01
1	20		55 1	840914	14 265	7	05 19 01	34 538 N	120 400 W	1	1	2	3	1	03
1	1		57 1	840914	14 430	7	05 20 01	34 327 N	120 366 W	1	1	1	5	2	03
1	2		02 1	840917	08 125	7	06 02 01	35 094 N	120 451 W	1	2	1	1	2	02
1	2		04 1	840917	08 160	7	06 02 01	35 110 N	120 500 W	1	1	1	1	2	02
1	30		07 1	840917	08 430	7	06 03 01	35 397 N	121 170 W	1	2	1	1	2	03
1	1		09 1	840917	08 530	7	06 04 01	35 524 N	121 272 W	1	2	1	2	2	04
1	2		11 1	840917	09 090	7	06 04 01	36 112 N	121 434 W	1	1	1	2	2	04
1	1		12 1	840917	09 100	7	06 04 01	36 120 N	121 449 W	1	2	1	2	2	04
1	1		14 1	840917	09 130	7	06 04 01	36 135 N	121 480 W	1	2	1	2	2	04
1	1		15 1	840917	09 140	7	06 04 01	36 149 N	121 507 W	1	2	1	2	2	04
1	1		17 1	840917	09 220	7	06 04 01	36 256 N	121 554 W	1	1	1	2	2	04
1	1		17 2	840917	09 225	7	06 04 01	36 263 N	121 559 W	1	1	1	2	2	04
1	1		18 1	840917	09 237	7	06 04 01	36 279 N	121 566 W	1	2	1	2	2	04
1	1		19 1	840917	09 250	7	06 05 01	36 304 N	121 569 W	1	2	1	1	1	07
1	1		23 1	840917	09 330	7	06 05 01	36 382 N	121 552 W	1	2	2	1	1	07
1	1		24 1	840917	09 335	7	06 05 01	36 376 N	121 542 W	1	2	1	1	1	07
1	1		26 1	840917	10 158	7	06 06 01	36 365 N	121 529 W	1	1	1	1	1	03
1	1		28 1	840917	10 190	7	06 06 01	36 398 N	121 501 W	1	1	1	1	1	03
1	1		30 1	840917	10 217	7	06 07 01	36 437 N	121 487 W	1	2	2	1	1	03
1	15		31 1	840917	10 240	7	06 07 01	36 478 N	121 484 W	1	2	1	1	1	03
1	20		31 2	840917	10 240	7	06 07 01	36 478 N	121 484 W	1	2	1	1	1	03
1	30		31 3	840917	10 240	7	06 07 01	36 478 N	121 484 W	1	1	1	1	1	03
1	3		32 1	840917	10 260	7	06 07 01	36 490 N	121 482 W	1	1	2	1	1	03
1	3		33 1	840917	10 270	7	06 07 01	36 503 N	121 491 W	1	2	1	1	1	03
1	30		39 1	840917	10 400	7	06 08 01	36 570 N	122 008 W	1	2	2	1	1	04
1	2		39 2	840917	10 400	7	06 08 01	36 570 N	122 008 W	1	2	1	1	1	04
1	2		40 1	840917	10 405	7	06 08 01	36 565 N	122 026 W	1	2	1	1	1	04
1	2		41 1	840917	10 550	7	06 09 01	37 083 N	122 211 W	1	2	1	2	1	05
	6		43 1	840917	11 110	7	06 10 01	37 303 N	122 311 W	1	2	1	2	2	04
	206		45 1	840917	11 180	7	06 10 01	37 383 N	122 302 W	1	2	2	2	2	04
	1		46 1	840917	11 220	7	06 10 01	37 442 N	122 310 W	1	2	2	2	2	04
	1		48 1	840917	11 300	7	06 10 01	37 533 N	122 383 W	1	1	1	2	2	04
	5		53 1	840917	14 000	7	06 15 01	38 475 N	123 345 W	1	2	1	2	4	09
	1		55 1	840917	14 250	7	06 17 01	39 275 N	123 496 W	1	2	2	2	1	07
	1		56 1	840917	14 350	7	06 17 01	39 416 N	123 487 W	1	1	1	2	1	07
	1		57 1	840917	14 360	7	06 17 01	39 427 N	123 499 W	1	1	1	2	1	07
	1		72 1	840917	15 243	7	06 19 01	40 213 N	124 226 W	2			4	2	09
	1		01 1	840918	08 440	7	07 01 01	40 162 N	124 222 W	1	1	1	4	2	11
	1		03 1	840918	08 475	7	07 01 01	40 135 N	124 209 W	1	1	2	4	2	11
	2		06 1	840918	08 560	7	07 02 01	40 092 N	124 130 W	1	2	1	2	2	11

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
91	1		11 1	840918	09 095	7	07 02 01	39 597 N	124 018 W	2			2	2	11
91	1		13 1	840918	09 165	7	07 02 01	39 558 N	123 576 W	1	2	1	2	2	11
91	1		22 1	840918	09 580	7	07 03 01	39 176 N	123 484 W	1	2	1	2	1	11
91	2		25 1	840918	10 170	7	07 03 01	38 545 N	123 428 W	1	2	2	2	1	11
91	1		26 1	840918	10 190	7	07 04 01	38 521 N	123 400 W	1	2	2	4	1	12
91	12		28 1	840918	10 389	7	07 05 01	38 306 N	123 136 W	1	2	2	2	1	12
91	12		31 1	840918	11 420	7	07 07 01	38 176 N	123 035 W	1	1	2	1	1	12
91	2		31 2	840918	11 420	7	07 07 01	38 176 N	123 035 W	1	2	1	1	1	12
91	3		34 1	840918	12 120	7	07 09 02	37 450 N	123 053 W	1	2	2	2	4	12
91	1		35 1	840918	12 130	7	07 09 02	37 438 N	123 037 W	1	1	1	2	4	12
91	1		36 1	840918	12 250	7	07 10 01	37 582 N	123 012 W	1	2	1	2	4	12
91	1		37 1	840918	12 270	7	07 11 01	37 594 N	122 596 W	1	1	1	2	1	03
91	1		40 1	840918	13 130	7	07 14 01	37 220 N	122 247 W	1	2	1	1	4	12
91	1		41 1	840918	13 230	7	07	37 108 N	122 240 W	2			1	4	12
91	1		41 2	840918	13 230	7	07	37 108 N	122 240 W	2			1	4	12
91	1		42 1	840918	13 260	7	07 14 02	37 066 N	122 202 W	1	2	2	2	4	12
91	1		43 1	840918	13 370	7	07 14 02	36 568 N	122 052 W	1	2	1	2	4	12
91	1		44 1	840918	13 410	7	07 14 02	36 570 N	121 583 W	1	1	2	2	4	12
91	2		45 1	840918	13 420	7	07 14 02	36 580 N	121 567 W	1	1	1	2	4	12
91	4		46 1	840918	15 010	7	07 15 01	36 484 N	121 475 W	1	2	1	2	2	02
91	3		47 1	840918	15 025	7	07 15 01	36 469 N	121 483 W	1	2	1	2	2	02
91	1		48 1	840918	15 025	7	07 15 01	36 467 N	121 485 W	1	2	2	2	2	02
91	6		49 1	840918	15 040	7	07 16 01	36 450 N	121 488 W	1	1	2	2	2	02
91	3		50 1	840918	15 050	7	07 16 01	36 435 N	121 489 W	1	1	2	2	2	02
91	1		50 2	840918	15 050	7	07 16 01	36 435 N	121 489 W	1	2	1	2	2	02
91	3		50 3	840918	15 050	7	07 16 01	36 435 N	121 489 W	1	2	1	2	2	02
91	1		51 1	840918	15 070	7	07 17 01	36 420 N	121 491 W	1	2	1	2	2	02
91	1		53 1	840918	15 080	7	07 17 01	36 407 N	121 496 W	1	2	1	2	2	02
91	2		54 1	840918	15 100	7	07 17 01	36 378 N	121 515 W	1	2	1	2	2	02
91	2		55 1	840918	15 111	7	07 18 01	36 367 N	121 532 W	1	2	1	2	2	11
91	1		56 1	840918	15 112	7	07 18 01	36 367 N	121 533 W	1	2	1	2	2	11
91	2		57 1	840918	15 120	7	07 18 01	36 375 N	121 538 W	1	2	1	2	2	11
91	2		58 1	840918	15 123	7	07 18 01	36 377 N	121 540 W	1	1	1	2	2	11
91	1		59 1	840918	15 128	7	07 18 01	36 383 N	121 549 W	1	1	1	2	2	11
91	3		61 1	840918	15 155	7	07 18 01	36 354 N	121 585 W	1	1	1	2	2	11
91	1		62 1	840918	15 160	7	07 18 01	36 347 N	121 589 W	1	1	1	2	2	11
91	4		63 1	840918	15 190	7	07 18 01	36 314 N	121 573 W	1	2	1	2	2	11
91	1		64 1	840918	15 195	7	07 18 01	36 309 N	121 572 W	1	1	2	2	2	11
91	1		65 1	840918	15 200	7	07 18 01	36 306 N	121 570 W	1	1	2	2	2	11
91	1		66 1	840918	15 210	7	07 18 01	36 292 N	121 578 W	1	1	1	2	2	11
91	1		67 1	840918	15 220	7	07 18 01	36 280 N	121 563 W	1	1	1	2	2	11
91	1		68 1	840918	15 222	7	07 18 01	36 278 N	121 562 W	1	1	2	2	2	11
91	4		69 1	840918	15 225	7	07 18 01	36 277 N	121 561 W	1	2	1	2	2	11

e 8. continued

ine nal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
1	1		71 1	840918	15 280	7	07 19 01	36 183 N	121 544 W	1	1	1	2	1	02
1	1		72 1	840918	15 320	7	07 19 01	36 138 N	121 488 W	1	2	1	2	1	02
1	1		73 1	840918	15 325	7	07 19 01	36 136 N	121 477 W	1	1	2	2	1	02
1	2		74 1	840918	15 330	7	07 19 01	36 133 N	121 470 W	1	1	1	2	1	02
1	5		75 1	840918	15 333	7	07 19 01	36 132 N	121 469 W	1	2	1	2	1	02
1	2		75 2	840918	15 333	7	07 19 01	36 132 N	121 469 W	1	2	1	2	1	02
1	5		76 1	840918	15 350	7	07 19 01	36 120 N	121 452 W	1	2	2	2	1	02
1	6		76 2	840918	15 350	7	07 19 01	36 120 N	121 452 W	1	2	1	2	1	02
1	1		76 3	840918	15 350	7	07 19 01	36 120 N	121 452 W	1	1	2	2	1	02
1	1		77 1	840918	15 360	7	07 19 01	36 114 N	121 434 W	1	2	1	2	1	02
1	3		78 1	840918	15 363	7	07 19 01	36 113 N	121 432 W	1	1	2	2	1	02
1	1		78 2	840918	15 363	7	07 19 01	36 113 N	121 432 W	1	2	1	2	1	02
1	1		80 1	840918	15 368	7	07 19 01	36 111 N	121 430 W	1	1	1	2	1	02
1	1		82 1	840918	15 430	7	07 19 01	36 014 N	121 347 W	1	1	1	2	1	02
1	1		85 1	840918	16 000	7	07 19 01	35 398 N	121 172 W	1	1	1	2	1	02
1	1		86 1	840918	16 220	7	07 20 01	35 158 N	120 541 W	1	2	1	2	2	03
1	1		86 2	840918	16 220	7	07 20 01	35 158 N	120 541 W	1	1	1	2	2	03
1	2		87 1	840918	16 420	7	07 21 01	34 536 N	120 398 W	1	1	2	2	2	03
1	1		88 1	840918	16 500	7	07 21 01	34 372 N	120 400 W	1	2	1	2	2	03
1	1		89 1	840918	16 590	7	07 22 01	34 282 N	120 287 W	1	1	1	4	2	04
1	1		02 1	841220	11 434	1	33 01 01	33 304 N	118 442 W	1	2	2	2	1	05
1	1		03 1	841220	11 446	1	33 01 01	33 318 N	118 427 W	1	2	1	2	1	05
1	5		04 1	841220	11 450	1	33 01 01	33 324 N	118 422 W	1	2	3	2	1	05
1	1		05 1	841220	11 458	1	33 01 01	33 334 N	118 411 W	1	2	1	2	1	05
1	2		06 1	841220	11 462	1	33 01 01	33 336 N	118 408 W	1	1	1	2	1	05
1	1		07 1	841220	12 183	1	33 05 01	33 287 N	118 317 W	1	2	1	2	1	05
1	1		08 1	841220	12 277	1	33 06 01	33 288 N	118 292 W	1	2	2	2	1	11
1	2		14 1	841220	13 474	1	33 18 04	33 120 N	118 139 W	1	1	1	2	2	12
1	1		18 1	841220	14 221	1	33 24 01	33 154 N	118 325 W	1	1	1	2	2	06
1	2		01 1	841221	09 570	1	34	33 329 N	118 456 W	2			1	2	
1	1		02 1	841221	10 047	1	34 01 01	33 319 N	118 430 W	1	2	2	1	2	04
1	6	30	03 1	841221	10 202	1	34 02 01	33 269 N	118 436 W	1	1	2	1	2	10
1	1		04 1	841221	10 246	1	34 03 01	33 263 N	118 398 W	1	1	1	1	2	04
1	1	60	06 1	841221	10 251	1	34 03 01	33 269 N	118 391 W	1	1	1	1	2	04
1	1	45	07 1	841221	11 032	1	34 09 01	33 272 N	118 240 W	1	2	1	1	1	04
1	1		10 1	841221	11 082	1	34	33 304 N	118 178 W	2			1	1	
1	1	55	14 1	841221	11 512	1	34 16 02	33 178 N	118 178 W	1	1	1	1	1	10
1	8		17 1	841221	12 034	1	34 17 01	33 163 N	118 144 W	1	1	1	1	1	05
1	1	60	18 1	841221	12 034	1	34 17 01	33 163 N	118 144 W	1	2	1	1	1	05
1	2		19 1	841221	12 041	1	34 17 01	33 171 N	118 134 W	1	1	2	1	1	05
1	2	45	20 1	841221	12 135	1	34 18 01	33 144 N	118 116 W	1	1	1	1	1	11
1	1		21 1	841221	12 243	1	34 19 01	33 177 N	118 180 W	1	1	1	1	1	11
1	1		25 1	841221	12 464	1	34 22 01	33 188 N	118 239 W	1	1	1	1	1	06

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
91	1	50	28 1	841221	12 580	1	34 24 01	33 185 N	118 289 W	1	1	1	1	1	06
91	1		32 1	841221	13 087	1	34 25 01	33 171 N	118 328 W	1	2	2	1	1	11
91	1		34 1	841221	13 296	1	34 29 01	33 233 N	118 360 W	1	2	3	1	2	12
91	1		37 1	841221	13 494	5	34 01 01	33 231 N	118 557 W	1	2	2	1	2	09
91	1		38 1	841221	13 507	5	34 01 01	33 240 N	118 586 W	1	2	2	1	2	09
91	6		38 2	841221	13 507	5	34 01 01	33 240 N	118 586 W	1	2	3	1	2	09
91	8		39 1	841221	13 510	5	34 01 01	33 241 N	118 592 W	1	1	1	1	2	09
91	1		40 1	841221	13 515	5	34 01 01	33 244 N	119 002 W	1	2	1	1	2	09
91	1		43 1	841221	14 050	5	34 03 01	33 278 N	118 563 W	1	2	1	1	2	02
91	2		44 1	841221	14 061	5	34 03 01	33 256 N	118 556 W	1	1	2	1	2	02
91	1		45 1	841221	14 087	5	34	33 267 N	118 595 W	2			1	2	
91	20		46 2	841221	14 114	5	34 04 01	33 280 N	119 051 W	1	1	2	1	2	10
91	1		48 1	841221	14 163	5	34 05 01	33 307 N	119 028 W	1	2	1	1	2	06
91	6		49 1	841221	14 166	5	34 05 01	33 310 N	119 022 W	1	2	1	1	2	06
91	22		52 1	841221	14 228	5	34	33 262 N	118 545 W	2			1	2	
91	1		02 1	850114	10 149	1	35 01 01	33 302 N	118 453 W	1	1	1	2	2	03
91	6	40	14 1	850114	10 384	1	35 03 01	33 277 N	118 406 W	1	2	1	2	2	03
91	1		24 1	850114	11 410	1	35 13 01	33 259 N	118 152 W	1	2	2	2	1	04
91	15		35 1	850114	12 585	1	35 23 01	33 192 N	118 252 W	1	2	3	2	1	11
91	2		41 1	850114	13 232	1	35 26 01	33 201 N	118 317 W	1	1	1	2	1	05
91	1		42 1	850114	13 237	1	35 26 01	33 208 N	118 310 W	1	2	2	2	1	05
91	1		43 1	850114	13 245	1	35 26 02	33 219 N	118 298 W	1	2	1	1	1	05
91	7		54 1	850114	13 436	1	35 29 01	33 228 N	118 363 W	1	2	2	1	2	12
91	1		56 1	850114	13 459	1	35 29 01	33 227 N	118 364 W	1	1	1	1	2	12
91	2		58 1	850114	13 512	1	35 30 01	33 244 N	118 369 W	1	1	1	1	2	06
91	1		59 1	850114	13 528	1	35 30 01	33 262 N	118 349 W	1	2	1	1	2	06
91	6	65	60 1	850114	13 573	1	35 31 01	33 244 N	118 397 W	1	2	1	1	2	12
91	1	34	02 1	850115	10 238	1	36 01 01	33 328 N	118 420 W	1	2	2	1	2	04
91	2	27	06 1	850115	11 099	1	36 07 01	33 271 N	118 288 W	1	2	2	1	2	04
91	1		07 1	850115	11 148	1	36	33 329 N	118 222 W	2			1	2	
91	1		10 1	850115	11 463	1	36 13 02	33 237 N	118 176 W	1	2	1	1	2	04
91	1	54	12 1	850115	11 574	1	36 15 01	33 204 N	118 167 W	1	2	1	2	2	04
91	1		13 1	850115	12 071	1	36 16 01	33 186 N	118 167 W	1	2	1	2	2	11
91	1	34	21 1	850115	14 067	3	36 12 01	33 402 N	118 154 W	1	2	1	2	2	06
91	1	65	22 1	850115	14 082	3	36 12 01	33 423 N	118 136 W	1	1	1	2	2	06
91	1		07 1	850116	13 334	2	38 02 01	34 006 N	119 017 W	1	2	1	2	1	12
91	1		08 1	850116	13 348	2	38 02 01	33 588 N	119 035 W	1	2	1	2	1	12
91	1		09 1	850116	13 411	2	38 03 01	34 012 N	118 581 W	1	2	1	2	1	05
91	1		11 1	850116	13 468	2	38 04 01	33 580 N	118 596 W	1	1	1	2	1	11
91	1		12 1	850116	13 474	2	38 04 01	33 573 N	119 003 W	1	1	2	2	1	11
91	1		16 1	850116	14 317	2	38 11 01	33 578 N	118 412 W	1	1	1	1	2	06
91	1		17 1	850116	14 321	2	38 11 01	33 582 N	118 406 W	1	2	1	1	2	06
91	1		18 1	850116	14 326	2	38 11 01	33 588 N	118 400 W	1	2	2	1	2	06

e 8. continued

ne al ies le	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
1	40		15 1	850118	12 189	4	39 14 01	32 520 N	118 204 W	1	2	2	3	2	11
1	35		02 1	850911	12 500	8	01 02 05	43 530 N	124 095 W	1	2	2	4	5	13
1	38		04 1	850911	13 002	8	01 02 05	44 090 N	124 072 W	1	1	1	4	5	13
1	52		01 1	850916	11 109	7	02 01 11	35 267 N	120 564 W	1	2	1	2	1	04
1	39		02 1	850916	11 240	7	02 01 12	35 391 N	121 136 W	1	2	1	2	1	08
3			04 1	850916	11 247	7	02 01 12	35 393 N	121 151 W	1	1	1	2	1	08
2	27		05 1	850916	11 277	7	02 01 13	35 399 N	121 169 W	1	2	2	2	1	04
1	32		06 1	850916	11 361	7	02 01 13	35 499 N	121 239 W	1	2	2	2	1	04
1	43		07 1	850916	11 412	7	02 01 13	35 523 N	121 272 W	1	2	1	2	1	04
5	27		08 1	850916	11 415	7	02 01 13	35 532 N	121 280 W	1	2	2	2	1	04
3	30		09 1	850916	11 422	7	02 01 13	35 542 N	121 282 W	1	1	1	2	1	04
1	34		10 1	850916	11 583	7	02 01 14	36 118 N	121 441 W	1	2	2	1	1	08
1			11 1	850916	11 585	7	02 01 14	36 121 N	121 445 W	1	1	1	1	1	08
2			12 1	850916	11 585	7	02 01 14	36 121 N	121 445 W	1	1	1	1	1	08
2	37		13 1	850916	11 587	7	02 01 14	36 122 N	121 448 W	1	2	1	1	1	08
5	43		14 1	850916	11 588	7	02 01 14	36 122 N	121 448 W	1	2	1	1	1	08
1	44		15 1	850916	12 148	7	02 01 16	36 214 N	121 551 W	1	2	1	2	1	04
1	41		16 1	850916	12 211	7	02 01 17	36 294 N	121 575 W	1	2	1	2	1	04
1	64		18 1	850916	12 238	7	02 01 17	36 298 N	121 574 W	1	2	1	2	1	04
1	53		19 1	850916	12 244	7	02 01 17	36 305 N	121 577 W	1	2	1	2	1	04
1			20 1	850916	12 261	7	02 01 17	36 323 N	121 565 W	1	1	1	2	1	04
2	52		21 1	850916	12 265	7	02 01 17	36 327 N	121 568 W	1	2	1	2	1	04
3	46		22 1	850916	12 334	7	02 01 19	36 370 N	121 536 W	1	1	1	2	1	
1	44		23 1	850916	12 374	7	02 01 19	36 390 N	121 505 W	1	1	1	2	1	
1	44		24 1	850916	12 400	7	02 01 20	36 430 N	121 492 W	1	2	1	2	1	04
1	57		30 1	850916	14 586	7	02 02 06	37 133 N	122 252 W	1	2	1	2	4	09
1	34		34 1	850916	15 079	7	02 02 08	37 232 N	122 259 W	1	2	2	2	4	09
1	32		35 1	850916	15 141	7	02 02 08	37 311 N	122 316 W	1	2	2	2	4	09
1	54		37 1	850916	15 244	7	02 02 10	37 450 N	122 312 W	1	2	1	2	4	09
72	52		01 1	850917	11 119	7	03 01 01	38 176 N	123 041 W	1	2	1	2	5	13
6	37		03 1	850917	11 260	7	03 01 04	38 310 N	123 161 W	1	2	1	2	5	13
1	44		01 1	850918	12 155	7	04 01 01	38 325 N	123 182 W	1	1	1	2	4	07
1	27		02 1	850918	12 322	7	04 01 04	38 503 N	123 394 W	1	2	2	3	4	07
1	50		09 1	850918	14 223	7	04 02 09	41 067 N	124 106 W	1	1	1	3	1	08
1	33		01 1	850918	15 342	7	05 01 05	41 224 N	124 058 W	1	1	2	4	1	02
1	53		25 1	850919	10 182	7	06 01 04	40 276 N	124 272 W	1	2	1	3	1	03
1	36		03 1	850919	11 404	7	07 07 01	40 087 N	124 170 W	1	2	1	2	1	08
1	48		01 1	850919	14 108	7	09 02 01	41 008 N	124 191 W	1	2	1	4	4	04
5	32		01 1	850920	12 261	7	10 01 16	37 419 N	122 317 W	1	2	2	2	1	12
15	35		02 1	850920	12 261	7	10 01 16	37 419 N	122 317 W	1	1	2	2	1	12
2	36		03 1	850920	12 281	7	10 01 16	37 404 N	122 313 W	1	2	1	2	1	12
1	39		04 1	850920	12 302	7	10 01 17	37 401 N	122 311 W	1	2	1	2	1	12
4	35		05 1	850920	12 314	7	10 01 17	37 384 N	122 310 W	1	1	2	2	1	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
91	7	31	06 1	850920	12 332	7	10 01 18	37 374 N	122 310 W	1	2	2	2	1	12
91	1	54	10 1	850920	13 001	7	10 01 24	37 085 N	122 230 W	1	2	1	1	4	03
91	3	55	11 1	850920	13 016	7	10 01 25	37 063 N	122 216 W	1	1	1	1	4	12
91	2	40	15 1	850920	13 281	7	10 01 40	36 449 N	121 488 W	1	1	1	3	1	12
91	1	30	16 1	850920	13 303	7	10 01 40	36 417 N	121 492 W	1	1	2	3	1	12
91	1	48	17 1	850920	13 430	7	10 01 45	36 312 N	121 584 W	1	2	1	2	4	12
91	1		11 2	851004	12 450	8	11 02 04	46 201 N	124 063 W	1	1	2	3	1	12
91	1		17 1	851004	14 562	8	11 03 06	43 296 N	124 177 W	2			3	1	12
91	1	45	04 1	851014	11 120	7	12 01 08	34 570 N	120 402 W	1	1	1	2	2	05
91	7	25	07 1	851014	11 198	7	12 01 09	35 016 N	120 390 W	1	2	2	2	2	05
91	2	44	09 1	851014	11 280	7	12 01 09	35 100 N	120 430 W	1	2	1	2	2	05
91	1	42	10 1	851014	11 302	7	12 01 11	35 095 N	120 464 W	1	2	1	2	2	06
91	3		11 1	851014	11 340	7	12 01 11	35 133 N	120 531 W	1			2	2	06
91	6		12 1	851014	11 352	7	12 01 11	35 133 N	120 531 W	2			2	2	06
91	1	55	16 1	851014	11 438	7	12 01 12	35 263 N	120 545 W	1	2	1	2	2	05
91	1	50	17 1	851014	11 439	7	12 01 12	35 263 N	120 545 W	1	1	1	2	2	05
91	27	65	18 1	851014	11 445	7	12 01 12	35 263 N	120 558 W	1	2	1	2	2	05
91	1	62	19 1	851014	11 455	7	12 01 12	35 269 N	120 582 W	1	2	1	2	2	05
91	1	52	20 1	851014	11 493	7	12 01 13	35 304 N	121 044 W	1	2	1	2	2	07
91	1	37	21 1	851014	11 494	7	12 01 13	35 304 N	121 044 W	1	2	1	2	2	07
91	1	50	22 1	851014	11 499	7	12 01 13	35 310 N	121 050 W	1	2	1	2	2	07
91	16		23 1	851014	11 510	7	12 01 13	35 310 N	121 060 W	1	1	3	2	2	07
91	15		24 1	851014	11 512	7	12 01 13	35 322 N	121 066 W	2			2	2	07
91	6	25	25 1	851014	11 540	7	12 01 13	35 328 N	121 067 W	1	1	2	2	2	07
91	1	35	26 1	851014	11 555	7	12 01 14	35 351 N	121 084 W	1	1	1	1	2	06
91	1	35	28 1	851014	12 037	7	12 01 15	35 460 N	121 224 W	1	1	1	1	2	06
91	1	33	31 1	851014	12 152	7	12 01 18	35 540 N	121 289 W	1	2	2	1	2	07
91	1		32 1	851014	12 152	7	12 01 18	35 540 N	121 289 W	1			1	2	07
91	1	27	33 1	851014	12 176	7	12 01 19	35 552 N	121 316 W	1	2	2	1	2	07
91	1	53	34 1	851014	12 192	7	12 01 19	35 575 N	121 326 W	1	2	1	1	2	07
91	1	45	36 1	851014	12 265	7	12 01 20	36 058 N	121 397 W	1	1	1	1	2	07
91	1	32	37 1	851014	12 325	7	12 01 21	36 119 N	121 453 W	1	2	2	1	2	07
91	5	30	38 1	851014	12 330	7	12 01 21	36 120 N	121 458 W	1	2	2	1	2	07
91	20	29	39 1	851014	12 352	7	12 01 22	36 133 N	121 475 W	1	2	2	1	2	07
91	2	66	40 1	851014	12 352	7	12 01 22	36 133 N	121 475 W	1	1	1	1	2	07
91	27	41	41 1	851014	12 355	7	12 01 22	36 137 N	121 479 W	1	2	1	1	2	07
91	20	69	42 1	851014	12 358	7	12 01 22	36 138 N	121 485 W	1	2	1	1	2	07
91	1	27	43 1	851014	12 361	7	12 01 22	36 142 N	121 488 W	1	2	2	1	2	07
91	1	50	44 1	851014	12 365	7	12 01 22	36 147 N	121 496 W	1	1	1	1	2	07
91	2	66	48 1	851014	12 474	7	12 01 25	36 245 N	121 572 W	1	1	1	1	2	07
91	2	36	49 1	851014	12 502	7	12 01 26	36 272 N	121 581 W	1	2	1	2	2	07
91	27	58	50 1	851014	12 542	7	12 01 27	36 322 N	121 587 W	1	2	1	3	2	06
91	1	54	51 1	851014	12 544	7	12 01 27	36 327 N	121 585 W	1	2	1	3	2	06

le 8. continued

ine nal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							California sea lion (Zalophus californianus)								
1	4	40	52 1	851014	12 544	7	12 01 27	36 327 N	121 585 W	1	1	1	3	2	06
1	1	41	53 1	851014	12 552	7	12 01 27	36 333 N	121 593 W	1	2	1	3	2	06
1	2	44	54 1	851014	12 556	7	12 01 27	36 341 N	122 000 W	1	2	1	3	2	06
1	1	30	55 1	851014	12 567	7	12 01 27	36 355 N	122 007 W	1	2	2	3	2	06
1	1	65	56 1	851014	12 569	7	12 01 27	36 357 N	122 005 W	1	1	1	3	2	06
1	1	37	57 1	851014	12 575	7	12 01 27	36 362 N	122 001 W	1	1	1	3	2	06
1	1	50	58 1	851014	12 593	7	12 01 27	36 377 N	121 589 W	1	2	1	3	2	06
1	3		59 1	851014	13 013	7	12 01 28	36 366 N	121 561 W	1	1	1	2	2	02
1	45	39	60 1	851014	13 017	7	12 01 28	36 361 N	121 555 W	1	2	1	2	2	02
1	7		61 1	851014	13 019	7	12 01 28	36 361 N	121 555 W	1	1	1	2	2	02
1	1	40	62 1	851014	13 040	7	12 01 29	36 362 N	121 534 W	1	1	1	2	2	05
1	3	43	63 1	851014	13 046	7	12 01 29	36 362 N	121 534 W	1	2	1	2	2	05
1	1	43	64 1	851014	13 071	7	12 01 29	36 374 N	121 532 W	1	2	1	2	2	05
1	1	38	72 1	851014	14 535	7	12 02 05	36 587 N	122 104 W	1	2	1	3	1	12
1	1	21	73 1	851014	15 009	7	12 02 06	37 062 N	122 196 W	1	2	3	3	1	08
1	3	48	74 1	851014	15 125	7	12 02 09	37 195 N	122 251 W	1	2	1	3	2	07
1	1	47	75 1	851014	15 250	7	12 02 12	37 359 N	122 320 W	1	1	1	3	2	09
1	1	50	76 1	851014	15 260	7	12 02 12	37 367 N	122 311 W	1	2	1	3	2	09
1	1	45	77 1	851014	15 276	7	12 02 13	37 391 N	122 307 W	1	1	1	2	1	07
1	1		78 1	851014	15 277	7	12 02 13	37 399 N	122 310 W	1	1	1	2	1	07
1	6		79 1	851014	15 279	7	12 02 13	37 399 N	122 310 W	2			2	1	07
1	3	40	01 1	851015	08 592	7	13 01 02	38 439 N	123 392 W	1	1	1	1	2	05
1	1	29	02 1	851015	09 020	7	13 01 02	38 455 N	123 419 W	1	2	2	1	2	05
1	1	37	03 1	851015	09 024	7	13 01 02	38 458 N	123 425 W	1	2	1	1	2	05
1	1	52	04 1	851015	09 024	7	13 01 02	38 458 N	123 425 W	1	2	1	1	2	05
1	1	41	05 1	851015	09 038	7	13 01 02	38 475 N	123 442 W	1	2	1	1	2	05
1	1	30	06 1	851015	09 042	7	13 01 02	38 479 N	123 450 W	1	1	2	1	2	05
1	1	39	11 1	851015	09 184	7	13 01 04	38 558 N	123 486 W	1	1	1	1	2	05
1	2	49	19 1	851015	09 383	7	13 01 09	39 140 N	123 506 W	1	2	1	1	2	05
1	2	50	20 1	851015	09 392	7	13 01 09	39 155 N	123 511 W	1	1	1	1	2	05
1	1	37	61 1	851015	10 448	7	13 01 13	40 207 N	124 245 W	1	1	1	2	1	05
1	3	47	72 1	851015	11 125	7	13 01 15	40 522 N	124 156 W	1	1	1	2	1	04
1	1	31	74 1	851015	11 183	7	13 01 15	40 587 N	124 112 W	1	2	2	2	1	04
1	1		76 1	851015	11 222	7	13 01 15	41 033 N	124 116 W	2			2	1	04
1	1	35	83 1	851015	11 427	7	13 01 19	41 342 N	124 087 W	1	1	2	2	1	05
1	1	33	88 1	851015	11 502	7	13 01 20	41 464 N	124 141 W	1	2	2	2	1	06
1	1		89 1	851015	11 535	7	13 01 21	41 488 N	124 197 W	1	2	2	2	1	06
1	6	57	90 1	851015	11 535	7	13 01 21	41 488 N	124 197 W	1	1	1	2	1	06
	17	33	91 1	851015	11 535	7	13 01 21	41 488 N	124 197 W	1	2	2	2	1	06
	9	25	05 1	851216	10 465	1	40 02 01	33 296 N	118 409 W	1	2	2	2	2	10
	5		06 1	851216	10 544	1	40	33 245 N	118 421 W	2			2	2	
	1	33	14 1	851216	12 274	1	40 16 01	33 199 N	118 152 W	1	1	2	1	1	11
	1		18 2	851216	13 456	1	40	33 193 N	118 271 W	2			1	2	

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
								California sea lion (Zalophus californianus)							
91	2	42	22 1	851216	14 375	1	40 32 01	33 257 N	118 404 W	1	2	1	1	2	06
91	12		09 1	851217	12 515	1	41	33 184 N	118 169 W	2			1	2	
91	1	33	11 1	851217	13 190	1	41 23 01	33 185 N	118 264 W	1	1	2	1	2	12
91	4	26	16 1	851217	13 568	1	41 28 01	33 231 N	118 334 W	1	1	2	1	2	06
91	1	35	20 1	851217	14 222	1	41 32 01	33 262 N	118 399 W	1	2	2	1	2	06
								Northern elephant seal (Mirounga angustirostris)							
92	1		24 2	810117	11 160	1	08 03 05	33 213 N	118 315 W	1	2	1	3	2	06
92	1		30 1	821215	12 548	1	18 18 01	33 138 N	118 123 W	1	1	1	1	2	11
92	1	63	11 1	831214	11 241	1	27 05 01	33 306 N	118 299 W	1	1	1	2	1	04
92	1	39	23 1	840110	11 583	1	29 07 01	33 298 N	118 259 W	1	1	2	2	2	05
92	1		10 1	841220	12 597	1	33 12 01	33 262 N	118 176 W	1	1	1	2	1	11
92	1		13 1	841220	13 446	1	33 18 02	33 156 N	118 101 W	1	2	1	2	2	12
92	1	60	09 1	841221	11 058	1	34 09 01	33 303 N	118 201 W	1	1	1	1	1	04
92	1		16 1	841221	12 031	1	34 17 01	33 160 N	118 148 W	1	1	1	1	1	05
92	1	55	26 1	841221	12 531	1	34 23 01	33 141 N	118 316 W	1	1	1	1	1	12
92	3		47 1	841221	14 158	5	34 05 01	33 299 N	119 038 W	1	1	1	1	2	06
92	1	65	09 1	850115	11 234	1	36 09 01	33 283 N	118 228 W	1	1	1	1	2	04
92	1	46	29 1	850916	14 542	7	02 02 06	37 083 N	122 213 W	1	2	1	2	4	09
92	1	64	81 1	851014	15 350	7	12 02 14	37 489 N	122 323 W	1	2	1	2	2	08
								Harbor seal (Phoca vitulina richardsi)							
93	4		37 1	801216	10 280	1	02 03 04	33 182 N	118 251 W	1	1	1	1	2	08
93	1		38 1	801216	10 290	1	02 03 04	33 184 N	118 274 W	1	2	1	1	2	08
93	1		46 1	801216	10 590	1	02 04 05	33 185 N	118 250 W	1	2	2	1	2	08
93	1		55 1	801216	11 030	1	02 04 06	33 214 N	118 296 W	1	2	2	1	2	05
93	1		62 1	801216	11 081	1	02 04 08	33 257 N	118 342 W	1	1	1	1	2	07
93	1		24 1	801217	09 560	1	03 02 05	33 284 N	118 401 W	1	2	1	2	2	06
93	1		37 1	801217	10 230	1	03 03 04	33 182 N	118 251 W	1	1	1	2	2	08
93	1		44 1	801217	10 280	1	03 03 05	33 231 N	118 326 W	1	2	2	1	2	06
93	2		54 1	801217	10 430	1	03 04 02	33 265 N	118 261 W	1	1	2	1	2	02
93	1		69 1	801217	11 000	1	03 04 07	33 255 N	118 325 W	1	2	1	1	2	08
93	1		23 1	810113	10 340	1	05 02 05	33 204 N	118 333 W	1	2	2	1	2	06
93	1		35 1	810113	11 101	1	05 03 05	33 191 N	118 300 W	1	2	1	1	2	07
93	2		36 1	810113	11 101	1	05 03 05	33 191 N	118 300 W	1	1	2	1	2	07
93	1		37 1	810113	11 101	1	05 03 05	33 191 N	118 300 W	1	1	2	1	2	07
93	1		40 1	810113	11 120	1	05 03 05	33 215 N	118 316 W	1	1	1	1	2	07

le 8. continued

ine nal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor seal (Phoca vitulina richardsi)								
3	1		41 1	810113	11 130	1	05 03 05	33 231 N	118 326 W	1	1	1	1	2	07
3	2		46 1	810113	11 290	1	05 04 03	33 211 N	118 184 W	1	2	2	1	2	01
3	2		55 1	810113	11 369	1	05 04 05	33 193 N	118 276 W	1	2	1	1	2	08
3	1		56 1	810113	11 371	1	05 04 06	33 195 N	118 296 W	1	2	1	1	2	06
3	1		59 1	810113	11 420	1	05 04 07	33 254 N	118 320 W	1	1	1	1	2	09
3	1		60 1	810113	11 420	1	05 04 07	33 254 N	118 320 W	1	1	1	1	2	09
3	2		61 1	810113	11 429	1	05 04 07	33 257 N	118 342 W	1	1	1	1	2	09
3	1		62 2	810113	11 429	1	05 04 07	33 257 N	118 342 W	1	1	1	1	2	09
3	1		04 1	810116	09 420	1	07 01 03	33 171 N	118 126 W	1	1	1	1	2	10
3	1		05 1	810116	09 420	1	07 01 03	33 171 N	118 126 W	1	2	2	1	2	10
3	1		13 1	810116	10 079	1	07 01 05	33 329 N	118 457 W	1	2	1	1	2	06
3	1		23 1	810116	10 490	1	07 02 05	33 300 N	118 411 W	1	1	1	1	2	06
3	5		37 1	810116	11 179	1	07 03 04	33 191 N	118 300 W	1	1	1	1	1	08
3	1		61 1	810116	11 481	1	07 04 06	33 195 N	118 296 W	1	2	2	1	1	05
3	6		62 1	810116	11 481	1	07 04 06	33 195 N	118 296 W	1	2	1	1	1	05
3	1		08 1	810117	10 260	1	08 02 03	33 191 N	118 142 W	1	2	1	3	2	10
3	1		34 1	810117	11 420	1	08 04 05	33 193 N	118 276 W	1	2	2	2	2	09
3	1		35 1	810117	11 429	1	08 04 05	33 195 N	118 296 W	1	1	2	2	2	09
3	1		36 1	810117	11 429	1	08 04 05	33 195 N	118 296 W	1	2	2	2	2	09
3	1		30 1	810224	11 060	1	10 04 08	33 274 N	118 356 W	1	1	1	2		
3	1		37 1	810226	11 100	1	11 04 06	33 233 N	118 295 W	1	2	2	3	1	05
3	1		38 1	810226	11 150	1	11 04 08	33 271 N	118 352 W	1	2	2	3	1	06
3	1		39 1	810226	11 150	1	11 04 08	33 271 N	118 352 W	1	2	2	3	1	06
3	1		18 1	810323	13 530	1	13 04 02	33 282 N	118 302 W	1	1	1	3	1	03
3	9		12 1	810325	11 300	1	15 01 05	33 250 N	118 392 W	1	2	1	2	1	08
3	1		14 1	810325	11 349	1	15 01 05	33 329 N	118 457 W	1	1	1	2	1	08
3	1		21 1	810325	12 400	1	15 03 04	33 183 N	118 256 W	1	2	1	3	1	10
3	1		11 1	821214	11 563	1	17 02 01	33 312 N	118 346 W	1	1	1	2	2	03
3	3		41 1	821215	13 199	1	18 21 01	33 172 N	118 224 W	1	1	1	1	2	12
3	1	61	08 1	831213	11 314	1	26 09 01	33 260 N	118 249 W	1	1	1	2	1	04
3	1		11 1	840113	11 474	4	32	32 542 N	118 339 W	2			2	2	
3	1		07 1	840909	10 120	8	01 05 01	48 092 N	124 443 W	1	1	1	2	2	04
	1		15 1	840910	09 350	8	02 03 01	44 384 N	124 043 W	1	2	1	1	2	10
	1		01 1	840913	08 080	7	04 01 01	34 283 N	120 290 W	1	2	1	0	3	05
	1		02 1	840913	08 090	7	04 01 01	34 298 N	120 303 W	1	2	1	0	3	05
	2		03 1	840913	08 140	7	04 01 01	34 329 N	120 380 W	1	2	1	0	3	05
	5		06 1	840913	08 240	7	04 02 01	34 454 N	120 385 W	1	2	2	2	3	04
	2		06 2	840913	08 240	7	04 02 01	34 454 N	120 385 W	1	2	2	2	3	04
	1		10 1	840913	08 450	7	04 02 01	35 089 N	120 405 W	1	2	1	2	3	04
	1		12 1	840913	08 530	7	04 02 01	35 145 N	120 538 W	1	2	1	2	3	04
	1		12 2	840913	08 530	7	04 02 01	35 145 N	120 538 W	1	2	1	2	3	04
	1		14 1	840913	09 010	7	04 03 01	35 237 N	120 524 W	1	2	1	2	3	04
	1		49 1	840913	12 409	7	04 08 01	36 571 N	121 584 W	1	2	1	2	4	06

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Harbor seal (Phoca vitulina richardsi)								
93	1		54 1	840913	13 140	7	04 10 01	37 294 N	122 300 W	1	2	2	2	4	06
93	1		68 1	840913	16 010	7	04 15 01	39 257 N	123 490 W	1	2	1	2	2	08
93	1		53 1	840914	14 180	7	05 18 01	35 057 N	120 382 W	1	1	1	3	1	01
93	2		01 1	840917	08 070	7	06 02 01	35 062 N	120 383 W	1	1	1	1	2	02
93	1		10 1	840917	08 550	7	06 04 01	35 550 N	121 285 W	1	2	1	2	2	04
93	1		21 1	840917	09 290	7	06 05 01	36 341 N	121 584 W	1	2	1	1	1	07
93	1		38 1	840917	10 390	7	06 08 01	36 571 N	121 594 W	1	2	1	1	1	04
93	2		42 1	840917	11 100	7	06 10 01	37 294 N	122 305 W	1	2	1	2	2	04
93	6		49 1	840917	11 325	7	06 10 01	37 535 N	122 428 W	1	2	1	2	2	04
93	3		51 1	840917	12 060	7	06 13 01	38 177 N	123 036 W	1	2	1	2	4	03
93	1		52 1	840917	12 090	7	06 13 01	38 222 N	123 053 W	1	2	1	2	4	03
93	1		54 1	840917	14 160	7	06 16 01	39 125 N	123 467 W	1	2	1	2	4	09
93	1		39 1	840918	13 070	7	07 14 01	37 297 N	122 283 W	1	2	1	1	4	12
93	1		11 1	841221	11 146	1	34 11 01	33 260 N	118 200 W	1	1	1	1	1	04
93	1	60	42 1	841221	13 580	5	34 02 01	33 306 N	119 048 W	1	2	1	1	2	06
93	1		32 1	850114	12 457	1	35 20 01	33 171 N	118 207 W	1	2	1	1	1	05
93	1		04 1	850116	11 179	6	37 08 01	34 193 N	119 410 W	1	1	1	2	2	04
93	1		06 1	850116	11 541	6	37 14 01	34 156 N	119 273 W	1	1	1	1	1	04
93	1	49	28 1	850916	14 317	7	02 02 02	36 574 N	121 548 W	1	2	1	2	4	09
93	24		38 1	850916	15 336	7	02 02 12	37 536 N	122 427 W	1	2	1	2	4	10
93	1	46	04 1	850919	11 414	7	07 07 02	40 085 N	124 192 W	1	2	1	3	1	08
93	1		02 1	851004	11 357	8	11 02 01	48 104 N	124 442 W	1	2	1	3	1	12
93	1		04 1	851004	11 382	8	11 02 01	48 065 N	124 441 W	1	1	1	3	1	12
93	1		06 1	851004	11 396	8	11 02 02	48 044 N	124 433 W	1	2	1	2	1	12
93	1		09 1	851004	12 139	8	11 02 03	47 099 N	124 139 W	1	1	2	2	1	12
93	1		13 2	851004	12 470	8	11 02 04	46 175 N	124 063 W	1	1	2	3	1	12
93	1	54	14 1	851014	11 406	7	12 01 12	35 214 N	120 526 W	1	2	1	2	2	05
93	1	48	15 1	851014	11 430	7	12 01 12	35 254 N	120 537 W	1	2	1	2	2	05
93	1	56	29 1	851014	12 082	7	12 01 16	35 470 N	121 234 W	1	2	1	1	2	07
93	8	61	80 1	851014	15 309	7	12 02 14	37 426 N	122 313 W	1	2	1	2	2	08
93	1	40	13 1	851216	12 183	1	40 15 01	33 198 N	118 172 W	1	1	1	1	1	04
							Steller sea lion (Eumetopias jubatus)								
95	1		32 1	840909	14 450	8	01 11 01	46 037 N	123 564 W	1	1	1	2	1	01
95	5		34 1	840909	14 560	8	01 11 01	45 553 N	123 593 W	1	2	1	2	1	01
95	1		40 1	840909	15 470	8	01 11 01	44 518 N	124 035 W	1	2	1	2	1	01
95	1		49 1	840909	17 150	8	01 12 01	45 303 N	123 587 W	1	2	1	2	2	07
95	1		13 1	840910	09 120	8	02 02 01	45 091 N	123 592 W	1	1	1	1	3	10
95	1		48 1	840910	12 050	8	02 06 01	43 200 N	124 240 W	1	2	1	3	1	11
95	1		54 1	840910	12 350	8	02 07 01	42 466 N	124 317 W	1	2	1	4	1	11

ble 8. continued

ine mal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Steller sea lion (Eumetopias jubatus)								
5	1		58 1	840910	13 040	8	02 09 01	43 121 N	124 247 W	1	2	1	4	1	05
5	1		63 1	840910	14 590	8	02 11 01	43 458 N	124 115 W	1	1	1	3	5	13
5	1		65 1	840910	15 390	8	02 11 01	44 299 N	124 058 W	1	2	1	3	5	13
5	2		66 1	840910	15 420	8	02 11 01	44 339 N	124 054 W	1	2	1	3	5	13
5	4		70 1	840910	16 350	8	02 13 01	45 361 N	123 578 W	1	2	1	2	2	08
5	1		08 1	840911	09 080	8	03 03 01	43 348 N	124 150 W	2			1	3	09
5	1		13 1	840911	09 250	8	03 03 01	43 267 N	124 178 W	1	1	1	1	3	09
5	1		40 1	840911	10 275	8	03 05 01	42 448 N	124 315 W	2			1	3	10
5	1		96 1	840911	17 000	8	03 17 01	42 550 N	124 310 W	1	2	2	2	2	08
5	1		97 1	840911	17 240	8	03 18 01	43 253 N	124 185 W	1	2	1	2	2	08
5	1	40	03 1	850911	12 520	8	01 02 05	43 559 N	124 089 W	1	2	1	4	5	13
5	1		05 1	851004	11 390	8	11 02 01	48 056 N	124 442 W	1	2	2	3	1	12
5	1		07 1	851004	11 541	8	11 02 02	47 434 N	124 270 W	1	2	2	2	1	12
5	1		15 1	851004	14 081	8	11 03 06	44 594 N	124 026 W	1	1	2	3	1	12
5	1		47 1	851014	12 415	7	12 01 23	36 180 N	121 553 W	2			1	2	07
							Unidentified pinniped								
7	1		15 1	801215	11 140	1	01 02 05	33 272 N	118 390 W	1	1	1	1	2	06
7	1		16 1	801215	11 140	1	01 02 05	33 272 N	118 390 W	1	1	2	1	2	06
7	32		20 1	801215	11 169	1	01 02 05	33 312 N	118 418 W	1	2	2	1	2	06
7	3		30 1	801215	11 430	1	01 03 04	33 184 N	118 274 W	1	1	1	1	2	08
7	8		35 1	801215	11 500	1	01 03 05	33 255 N	118 346 W	1	1	2	1	2	06
7	2		37 1	801215	11 510	1	01 03 05	33 271 N	118 356 W	1	1	1	1	2	06
7	1		40 1	801215	11 529	1	01 03 05	33 295 N	118 380 W	1	1	2	1	2	06
7	1		45 1	801215	12 010	1	01 04 02	33 273 N	118 281 W	1	1	1	1	2	02
7	1		50 1	801215	12 130	1	01 04 05	33 192 N	118 273 W	1	1	2	1	2	09
7	2		51 1	801215	12 130	1	01 04 05	33 192 N	118 273 W	1	1	2	1	2	09
7	3		52 1	801215	12 151	1	01 04 06	33 195 N	118 296 W	1	1	1	1	2	07
7	7		53 1	801215	12 169	1	01 04 06	33 248 N	118 295 W	1	1	1	1	2	07
7	5		56 1	801215	12 210	1	01 04 08	33 274 N	118 356 W	1	1	1	1	2	08
7	10		57 1	801215	12 219	1	01 04 08	33 290 N	118 369 W	1	1	1	1	2	08
7	4		48 1	801216	10 590	1	02 04 05	33 185 N	118 250 W	1	2	2	1	2	08
7	1		54 1	801216	11 009	1	02 04 05	33 195 N	118 296 W	1	1	1	1	2	08
7	3		24 3	801218	11 380	1	04 04 05	33 182 N	118 223 W	1	2	3	3	5	13
7	1		24 1	810113	10 340	1	05 02 05	33 204 N	118 333 W	1	1	2	1	2	06
7	1		05 1	821213	11 590	1	16 02 01	33 312 N	118 372 W	1	1	1	2	2	03
7	5		18 1	821213	13 050	1	16 03 04	33 171 N	118 191 W	1	1	2	2	2	10
7	1		24 1	821213	13 391	1	16 04 04	33 181 N	118 192 W	1	1	1	2	2	11
7	1		04 1	821214	11 198	1	17 01 03	33 173 N	118 125 W	1	2	1	2	2	12
7	1		05 1	821214	11 200	1	17 01 03	33 181 N	118 123 W	1	2	2	2	2	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Unidentified pinniped								
97	2		09 1	821215	11 178	1	18 05 01	33 327 N	118 270 W	1	1	2	1	2	04
97	2		31 1	821215	13 067	1	18 19 01	33 169 N	118 184 W	1	2	1	1	2	12
97	1		04 1	821217	10 107	1	20 03 01	33 278 N	118 374 W	1	2	1	2	3	03
97	1		04 1	830203	10 475	1	21 02 01	33 311 N	118 394 W	1	1	1	3	2	10
97	1		31 1	830203	11 448	1	21 10 01	33 281 N	118 200 W	1	2	1	3	2	11
97	1		37 1	830203	12 134	1	21 15 01	33 210 N	118 156 W	1	1	2	2	2	04
97	1		53 1	830203	12 583	1	21 19 01	33 161 N	118 193 W	1	2	2	2	2	12
97	1		03 1	830204	11 045	1	22 05 01	33 291 N	118 316 W	1	1	1	3	2	04
97	1		08 1	830204	11 525	1	22 13 01	33 220 N	118 194 W	1	1	1	3	2	05
97	2		11 1	830204	12 147	1	22 16 01	33 202 N	118 152 W	1	1	1	3	2	11
97	1		16 1	830204	12 408	1	22 18 01	33 148 N	118 111 W	1	1	1	3	2	11
97	1		17 1	830204	12 413	1	22 18 01	33 143 N	118 116 W	1	2	2	3	2	11
97	1		01 1	830205	10 260	1	23 01 01	33 336 N	118 415 W	1	1	1	2	2	03
97	1		06 1	830205	10 413	1	23 02 02	33 288 N	118 422 W	1	1	2	2	2	10
97	1		12 1	830205	11 025	1	23 04 01	33 295 N	118 338 W	1	1	2	2	2	10
97	1		17 1	830205	11 099	1	23 05 01	33 305 N	118 299 W	1	1	2	2	5	13
97	1		19 1	830205	11 177	1	23 06 01	33 290 N	118 294 W	1	1	2	2	2	10
97	1		20 1	830205	11 183	1	23 06 01	33 283 N	118 301 W	1	1	1	2	2	10
97	1		21 1	830205	11 186	1	23 06 01	33 279 N	118 305 W	1	2	2	2	2	10
97	1		28 1	830205	11 403	1	23 09 01	33 291 N	118 219 W	1	1	1	2	5	13
97	1		31 1	830205	11 528	1	23 11 01	33 271 N	118 190 W	1	1	1	1	5	13
97	1		34 1	830205	12 185	1	23 15 01	33 208 N	118 161 W	1	1	1	2	5	13
97	5		35 2	830205	12 285	1	23 16 01	33 188 N	118 172 W	1	2	3	2	5	13
97	1		40 1	830205	12 473	1	23 17 01	33 175 N	118 125 W	1	1	1	2	5	13
97	1		44 1	830205	12 570	1	23 18 02	33 146 N	118 112 W	1	2	1	2	5	13
97	1		48 1	830205	13 176	1	23 20 01	33 147 N	118 230 W	1	1	1	2	5	13
97	5		50 1	830205	13 218	1	23 21 01	33 171 N	118 206 W	1	2	2	2	5	13
97	10		51 1	830205	13 220	1	23 21 01	33 171 N	118 206 W	1	2	2	2	5	13
97	1		52 1	830205	13 295	1	23 22 01	33 164 N	118 252 W	1	1	1	2	5	13
97	4		53 1	830205	13 295	1	23 22 01	33 164 N	118 252 W	1	2	1	2	5	13
97	15		54 1	830205	13 296	1	23 22 01	33 164 N	118 252 W	1	2	1	2	5	13
97	1		60 1	830205	13 385	1	23 23 01	33 148 N	118 306 W	1	2	1	2	5	13
97	1		61 1	830205	13 414	1	23 24 01	33 150 N	118 330 W	1	2	2	2	5	13
97	1		65 1	830205	13 479	1	23 25 01	33 187 N	118 311 W	1	2	2	2	5	13
97	1		71 1	830205	14 285	1	23 32 01	33 276 N	118 383 W	1	1	2	2	5	13
97	1		01 1	830206	10 150	1	24 01 01	33 293 N	118 463 W	1	1	2	2	5	13
97	1		15 1	830206	11 160	1	24 06 01	33 289 N	118 296 W	1	2	1	2	5	13
97	3		17 1	830206	11 165	1	24 06 01	33 283 N	118 302 W	1	2	1	2	5	13
97	1		22 1	830206	11 300	1	24 08 02	33 270 N	118 270 W	1	1	2	2	5	13
97	2		34 1	830206	12 388	1	24 16 01	33 167 N	118 191 W	1	1	1	2	5	13
97	1		35 1	830206	12 496	1	24 17 02	33 166 N	118 134 W	1	1	1	2	5	13
97	2		40 1	830206	13 146	1	24 19 01	33 166 N	118 189 W	1	1	1	2	5	13
97	1		47 1	830206	13 391	1	24 23 01	33 169 N	118 278 W	1	2	2	2	5	13

ble 8. continued

rine mal cies de	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Unidentified pinniped								
7	1		50 1	830206	13 543	1	24 25 01	33 184 N	118 313 W	1	2	2	2	5	13
7	1		52 1	830206	14 061	1	24 27 01	33 231 N	118 310 W	1	1	2	2	2	12
7	1		06 1	831212	11 096	1	25 03 01	33 316 N	118 345 W	1	1	3	2	1	04
7	1		13 1	831212	11 348	1	25 07 01	33 289 N	118 268 W	1	2	1	2	1	04
7	1		14 1	831212	11 441	1	25 08 01	33 265 N	118 270 W	1	1	1	3	1	11
7	2		17 1	831212	12 085	1	25 12 01	33 232 N	118 207 W	1	2	2	3	1	11
7	1		18 1	831212	12 145	1	25 13 01	33 269 N	118 139 W	1	2	1	3	1	05
7	1	40	20 1	831214	11 492	1	27 09 01	33 283 N	118 224 W	1	2	1	2	1	04
7	1	37	02 1	840109	11 376	1	28 03 01	33 277 N	118 383 W	1	1	1	2	2	04
7	1	65	18 1	840111	12 190	1	30 11 01	33 262 N	118 196 W	1	2	1	1	2	05
7	1	45	45 1	840111	14 288	1	30 28 02	33 229 N	118 337 W	1	1	2	2	2	06
7	1	23	11 1	840112	12 427	3	31 03 01	33 487 N	118 291 W	1	2	3	1	2	11
7	1		54 1	840911	11 590	7	03 10 01	41 288 N	124 048 W	1	1	1	2	4	12
7	8		07 1	840913	08 310	7	04 02 01	34 542 N	120 406 W	1	2	2	2	3	04
7	3		08 1	840913	08 320	7	04 02 01	34 557 N	120 405 W	1	2	1	2	3	04
7	1		52 1	840913	13 010	7	04 10 01	37 120 N	122 250 W	1	2	1	2	4	06
7	1		56 1	840913	13 450	7	04 11 01	38 015 N	122 546 W	1	1	2	2	1	07
7	2		57 1	840913	14 090	7	04 13 01	38 177 N	123 032 W	1	2	1	2	1	07
7	1		48 1	840914	13 210	7	05 16 01	36 213 N	121 547 W	1	2	1	3	4	01
7	2		05 1	840917	08 190	7	06 02 01	35 139 N	120 533 W	1	1	2	1	2	02
7	1		27 1	840917	10 160	7	06 06 01	36 368 N	121 522 W	1	2	1	1	1	03
7	1		12 1	841220	13 363	1	33 17 02	33 178 N	118 126 W	1	1	1	2	2	06
7	1		16 1	841220	13 588	1	33 19 01	33 135 N	118 218 W	1	1	1	3	2	12
7	1		19 1	841220	14 523	1	33 29 01	33 205 N	118 387 W	1	2	2	2	2	12
7	1		20 1	841220	15 008	1	33 31 01	33 251 N	118 385 W	1	1	1	2	2	12
7	1	55	08 1	841221	11 048	1	34 09 01	33 291 N	118 216 W	1	2	1	1	1	04
7	9		51 1	841221	14 217	5	34	33 251 N	118 576 W	2			1	2	
7	1		03 1	850114	10 179	1	35 01 01	33 336 N	118 414 W	1	1	2	2	2	03
7	3		04 1	850114	10 196	1	35 01 01	33 355 N	118 392 W	1	2	1	2	2	03
7	1		05 1	850114	10 247	1	35 02 01	33 369 N	118 336 W	1	2	1	2	2	10
7	16		09 1	850114	10 299	1	35 02 01	33 313 N	118 411 W	1	1	1	2	2	10
7	1		11 1	850114	10 308	1	35 02 01	33 303 N	118 424 W	1	1	1	2	2	10
7	2		13 1	850114	10 366	1	35 03 01	33 262 N	118 436 W	1	1	1	2	2	03
7	1		16 1	850114	10 503	1	35 04 01	33 290 N	118 337 W	1	2	1	2	2	10
7	1		17 1	850114	11 001	1	35 06 01	33 290 N	118 280 W	1	2	1	2	1	10
7	1	45	22 1	850114	11 209	1	35 10 01	33 294 N	118 188 W	1	2	1	1	1	10
7	1		25 1	850114	12 098	1	35 17 01	33 143 N	118 161 W	1	1	1	1	1	04
7	2		27 1	850114	12 114	1	35 17 01	33 161 N	118 142 W	1	2	1	1	1	04
7	1		31 1	850114	12 425	1	35 20 01	33 128 N	118 252 W	1	1	2	1	1	05
7	1		36 1	850114	13 007	1	35 23 01	33 179 N	118 270 W	1	1	2	2	1	11
7	1		51 1	850114	13 312	1	35 27 01	33 220 N	118 327 W	1	2	1	1	2	12
7	4		52 1	850114	13 315	1	35 27 01	33 217 N	118 330 W	1	2	3	1	2	12
7	1		53 1	850114	13 315	1	35 27 01	33 217 N	118 330 W	1	1	2	1	2	12

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat. Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver. Hor.
								Unidentified pinniped					
97	3	24	03 1	850115	10 457	1	36 03 02	33 297 N 118 361 W	1	2	2	2	2 04
97	1	15	05 1	850115	10 587	1	36 05 01	33 294 N 118 310 W	1	2	3	1	2 04
97	1		08 1	850115	11 180	1	36 08 01	33 294 N 118 240 W	1	1	1	1	2 10
97	1		11 1	850115	11 548	1	36 14 01	33 215 N 118 182 W	1	1	2	1	2 10
97	1		17 1	850115	13 313	3	36 05 01	33 464 N 118 268 W	1	1	2	2	2 12
97	1	60	23 1	850115	14 108	3	36 13 01	33 416 N 118 121 W	1	1	1	2	2 12
97	1		03 1	850116	11 040	6	37 06 01	34 174 N 119 469 W	1	1	1	2	2 03
97	2		13 1	850116	13 572	2	38 06 01	33 598 N 118 524 W	1	2	1	2	2 12
97	1	31	09 1	850118	11 015	4	39 29 01	33 005 N 118 361 W	1	2	2	2	2 11
97	1	50	10 1	850118	11 033	4	39 29 01	32 592 N 118 383 W	1	1	1	2	2 11
97	1	37	11 1	850118	11 037	4	39 29 01	32 586 N 118 391 W	1	2	2	2	2 11
97	1	46	05 1	850911	13 029	8	01 02 05	44 124 N 124 071 W	1	1	1	4	5 13
97	1	48	03 1	850916	11 247	7	02 01 12	35 392 N 121 144 W	1	2	1	2	1 08
97	1	40	31 1	850916	15 005	7	02 02 07	37 161 N 122 254 W	1	1	1	2	4 09
97	1	40	32 1	850916	15 013	7	02 02 07	37 170 N 122 253 W	1	2	1	2	4 09
97	1	49	04 1	850917	15 150	7	03 02 01	39 075 N 123 433 W	1	2	1	2	5 13
97	3	42	08 1	850918	14 102	7	04 02 07	40 517 N 124 113 W	1	1	1	4	1 06
97	1	40	12 1	850918	14 460	7	04 02 12	41 364 N 124 071 W	1	1	1	4	1 09
97	1	33	02 1	850919	12 102	7	08 01 03	40 247 N 124 278 W	1	2	2	4	1 05
97	1	41	01 1	851014	10 560	7	12 01 04	34 398 N 120 376 W	1	2	1	2	2 04
97	1	40	03 1	851014	11 105	7	12 01 07	34 555 N 120 406 W	1	1	1	3	2 05
97	1	54	08 1	851014	11 224	7	12 01 09	35 026 N 120 389 W	1	2	1	2	2 05
97	1	40	13 1	851014	11 366	7	12 01 12	35 158 N 120 540 W	1	1	1	2	2 05
97	1	32	35 1	851014	12 206	7	12 01 19	35 596 N 121 333 W	1	2	2	1	2 07
97	1	31	71 1	851014	14 487	7	12 02 04	36 564 N 122 031 W	1	2	2	3	1 12
97	1	63	83 1	851014	16 039	7	12 02 25	38 113 N 122 588 W	1	2	1	1	2 07
97	1	28	60 1	851015	10 425	7	13 01 13	40 169 N 124 252 W	1	2	2	2	1 05
97	1	49	64 1	851015	10 529	7	13 01 14	40 337 N 124 291 W	1	2	1	2	1 04
97	1	51	84 1	851015	11 429	7	13 01 19	41 348 N 124 090 W	1	2	1	2	1 05
97	1	47	92 1	851015	12 033	7	13 01 22	42 039 N 124 186 W	1	2	1	2	1 06
97	1	40	02 1	851216	10 324	1	40 01 02	33 332 N 118 421 W	1	1	1	2	2 03
97	1	20	04 1	851216	10 355	1	40 01 02	33 364 N 118 388 W	1	1	3	2	2 03
97	1	35	07 1	851216	11 009	1	40 03 01	33 283 N 118 375 W	1	1	2	2	2 04
97	2	31	04 1	851217	11 139	1	41 06 01	33 282 N 118 302 W	1	1	2	1	2 10
								Unidentified whale					
98	1		16 1	840909	11 350	8	01 07 01	47 387 N 124 238 W	2			2	2 11
98	2		94 1	840913	17 330	7	04 19 01	40 534 N 124 097 W	1	1	2	2	3 08
98	1		49 1	840914	13 230	7	05 16 01	36 185 N 121 545 W	1	2	1	3	4 01
98	1		17 1	840918	09 250	7	07 02 01	39 505 N 123 539 W	1	1	2	2	2 11

ble 8. continued

rine mmal ecies ode	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Unidentified whale								
98	2	40	46 1	851014	12 402	7	12 01 23	36 180 N	121 553 W	1	1	1	1	2	07
							Unidentified cetacean								
99	1		06 1	801215	10 199	1	01 01 04	33 159 N	118 324 W	1	1	2	1	2	07
99	1		07 1	801215	10 320	1	01 01 05	33 304 N	118 435 W	1	1	1	2	2	06
99	2		07 2	801215	10 320	1	01 01 05	33 304 N	118 435 W	1	1	2	2	2	06
99	1		10 1	801215	10 431	1	01 02 02	33 312 N	118 318 W	1	1	2	2	2	02
99	1		13 1	801215	10 589	1	01 02 03	33 145 N	118 163 W	1	1	2	1	2	10
99	1		19 1	801215	11 160	1	01 02 05	33 300 N	118 411 W	1	1	2	1	2	06
99	2		21 1	801215	11 169	1	01 02 05	33 312 N	118 418 W	1	1	2	1	2	06
99	1		26 1	801215	11 290	1	01 03 02	33 266 N	118 252 W	1	2	2	1	2	02
99	1		38 1	801215	11 520	1	01 03 05	33 283 N	118 366 W	1	1	1	1	2	06
99	1		39 1	801215	11 520	1	01 03 05	33 283 N	118 366 W	1	2	2	1	2	06
99	1		06 1	801216	09 070	1	02 01 04	33 156 N	118 301 W	1	1	3	1	2	07
99	1		08 1	801216	09 170	1	02 01 05	33 301 N	118 433 W	1	1	3	1	2	05
99	5		18 1	801216	09 310	1	02 02 02	33 284 N	118 254 W	1	1	3	1	2	01
99	4		01 1	801217	08 410	1	03 01 02	33 295 N	118 225 W	1	2	1	1	3	01
99	2		02 1	801217	08 410	1	03 01 02	33 295 N	118 225 W	1	2	1	1	3	01
99	3		14 1	801217	09 270	1	03 02 02	33 286 N	118 262 W	1	1	3	1	2	02
99	50		15 1	801217	09 339	1	03 02 02	33 233 N	118 117 W	1	2	3	1	2	02
99	2		33 1	801217	10 210	1	03 03 04	33 173 N	118 202 W	1	1	2	2	2	08
99	1		08 1	810113	09 460	1	05 01 04	33 144 N	118 236 W	1	1	1	1	2	07
99	1		10 1	810113	10 081	1	05 02 02	33 312 N	118 318 W	1	2	2	1	2	01
99	4		12 1	810113	10 110	1	05 02 02	33 286 N	118 262 W	1	1	2	1	2	01
99	1		15 1	810113	10 220	1	05 02 03	33 174 N	118 150 W	1	1	2	2	2	10
99	25		04 1	810115	11 300	1	06 01 05	33 272 N	118 411 W	1	2	1	1	1	06
99	6		05 2	810115	11 300	1	06 01 05	33 272 N	118 411 W	1	1	3	1	1	06
99	1		06 1	810115	11 310	1	06 01 05	33 285 N	118 423 W	1	1	2	1	1	06
99	5		33 1	810115	13 100	1	06 04 05	33 184 N	118 236 W	1	1	3	1	1	10
99	3		06 1	810116	09 451	1	07 01 04	33 125 N	118 151 W	1	1	3	1	2	07
99	2		24 1	810116	10 579	1	07 03 01	33 295 N	118 322 W	1	1	2	1	2	02
99	4		16 1	810117	10 450	1	08 02 05	33 284 N	118 401 W	1	1	3	3	2	06
99	1		05 1	810223	11 069	1	09 02 03	33 145 N	118 163 W	1	2	2	1	2	10
99	2		06 1	810223	11 449	1	09 03 03	33 166 N	118 176 W	1	2	2	1	1	11
99	4		17 2	810223	12 200	1	09 04 04	33 183 N	118 183 W	1	2	2	2	1	11
99	1		06 1	810224	09 350	1	10 02 02	33 281 N	118 242 W	1	2	3	1	2	01
99	2		09 1	810224	09 450	1	10 02 03	33 182 N	118 145 W	1	1	2	1	2	10
99	2		20 1	810224	10 270	1	10 03 04	33 175 N	118 225 W	1	2	2	1	5	13
99	8		01 1	810227	09 110	1	12 01 01	33 333 N	118 412 W	1	1	2	2	2	02
99	3		03 2	810227	09 160	1	12 01 02	33 324 N	118 295 W	1	1	3	2	2	01

Table 8. continued

Marine Mammal Species Code	Number of Animals	Declin. Angle to Sight	Sighting Number	Date (Y/M/D)	Local Time (Decimal Minute)	Flight Area Code	Flight Transect Leg	Position (Decimal Minute) Lat.	Long.	On=1 Off=2 Effort	Left=1 Right=2 Side	Inside=1 Outside=2 Extra=3 Swath	Beau No.	Sun Position Ver.	Hor.
							Unidentified cetacean								
99	1		42 1	810227	11 049	1	12 03 05	33 295 N	118 380 W	1	2	2	2	1	05
99	5		14 1	810323	13 369	1	13 03 04	33 191 N	118 300 W	1	1	2	3	1	11
99	5		04 1	810324	09 460	1	14 01 04	33 154 N	118 282 W	1	1	3	1	2	07
99	3		06 1	810324	10 040	1	14 02 01	33 312 N	118 395 W	1	2	1	2	1	02
99	5		08 1	810324	10 150	1	14 02 02	33 250 N	118 161 W	1	2	2	2	1	01
99	1		17 1	810324	11 030	1	14 03 04	33 180 N	118 236 W	1	2	1	2	1	06
99	4		11 1	810325	11 270	1	15 01 05	33 195 N	118 352 W	1	1	1	2	1	08
99	50		13 1	821214	12 037	1	17 02 02	33 275 N	118 233 W	1	2	1	1	2	02
99	3		08 1	821217	11 319	1	20 16 01	33 216 N	118 129 W	1	2	1	3	2	10
99	1		38 1	821217	13 322	1	20 31 01	33 268 N	118 364 W	1	2	1	3	2	12
99	6		49 1	830205	13 190	1	23 20 01	33 162 N	118 205 W	1	2	2	2	5	13
99	2		05 1	831212	10 591	1	25 02 01	33 286 N	118 420 W	1	1	1	2	1	10
99	50		09 1	831212	11 187	1	25 04 01	33 292 N	118 340 W	1	2	2	2	1	10
99	3		20 1	831212	12 345	1	25 16 01	33 182 N	118 175 W	1	2	2	3	1	11
99	15		10 1	831213	11 471	1	26 11 01	33 255 N	118 209 W	1	2	1	2	1	04
99	1	60	38 1	831214	12 497	1	27 17 01	33 155 N	118 152 W	1	1	1	2	1	05
99	5		24 1	840111	13 034	1	30 17 01	33 146 N	118 161 W	1	2	2	2	2	05
99	10	06	14 1	840112	13 288	3	31 10 01	33 397 N	118 239 W	1	2	3	1	2	06

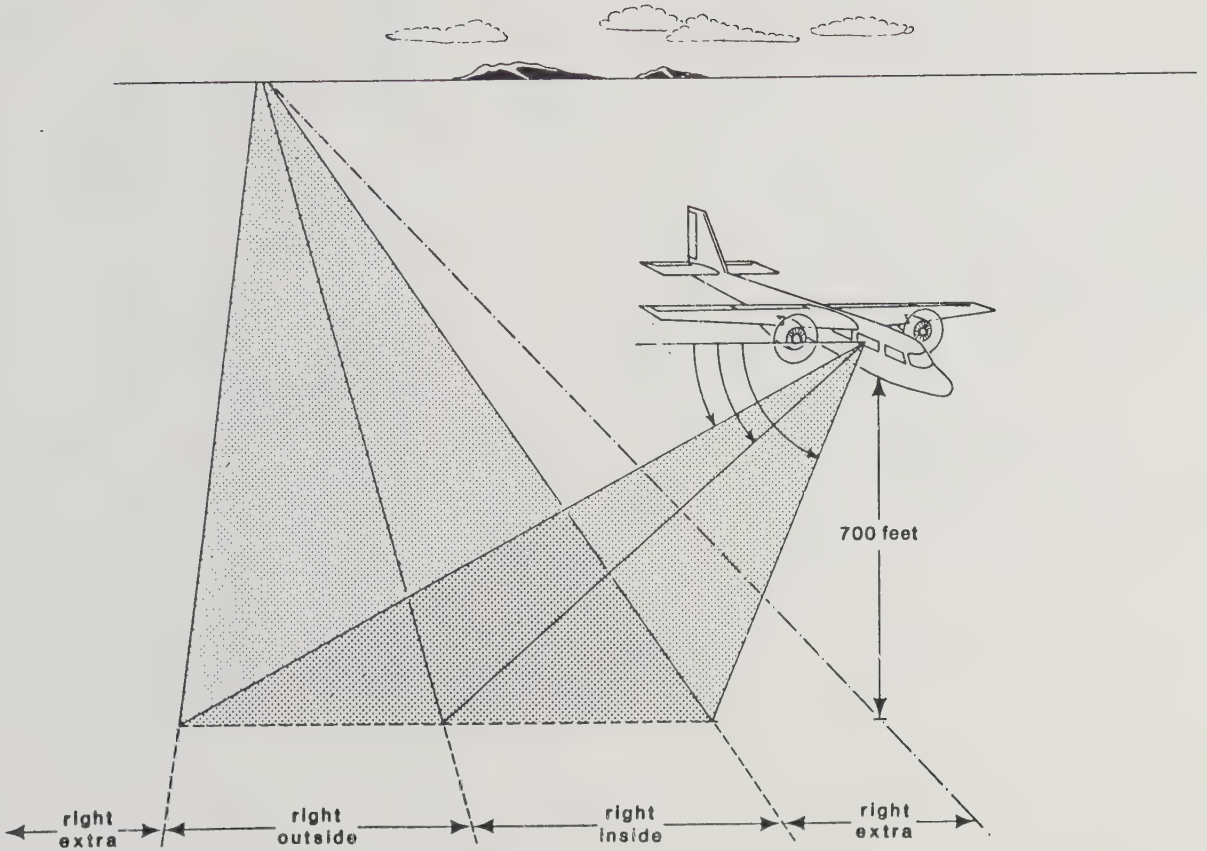

Figure 1 Example of transect swaths surveyed during aerial surveys for pilot whales and harbor porpoise using strip census methods.

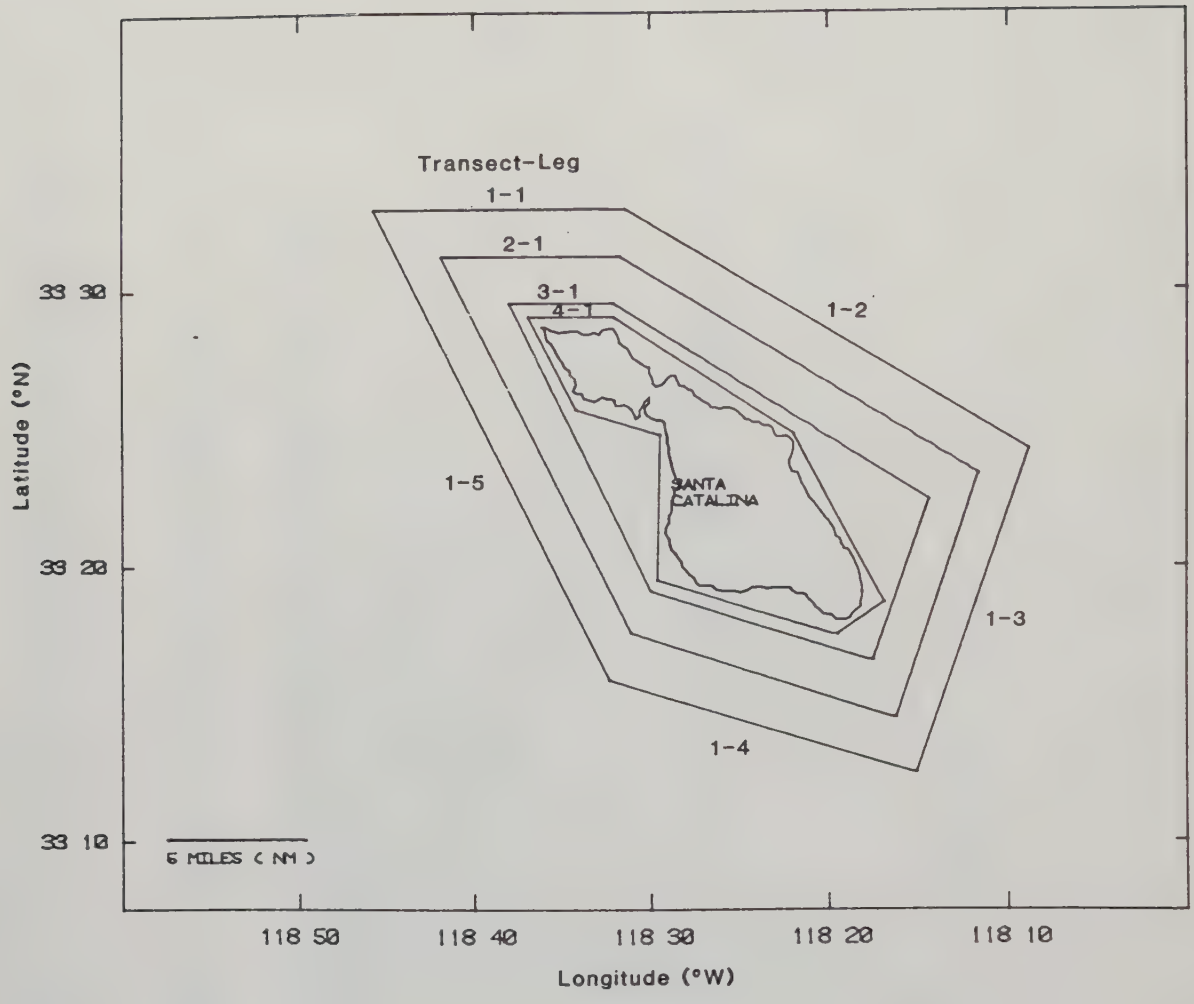

Figure 2 Experimental design of transects to be flown by the California Department of Fish and Game around Santa Catalina Island (Area 1).

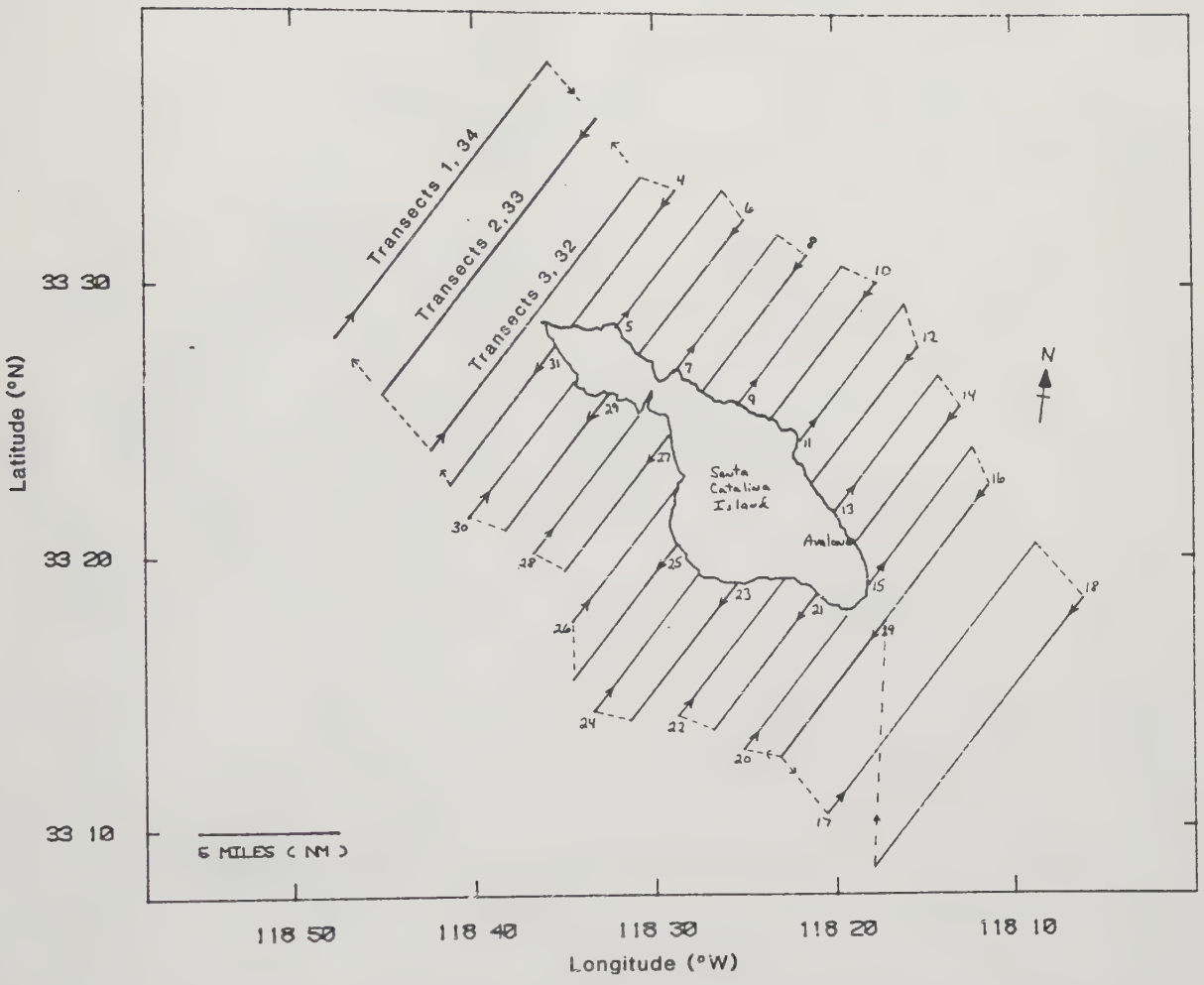

Figure 3 Experimental design of transects to be flown by the National Marine Fisheries Service around Santa Catalina Island (Area 1).

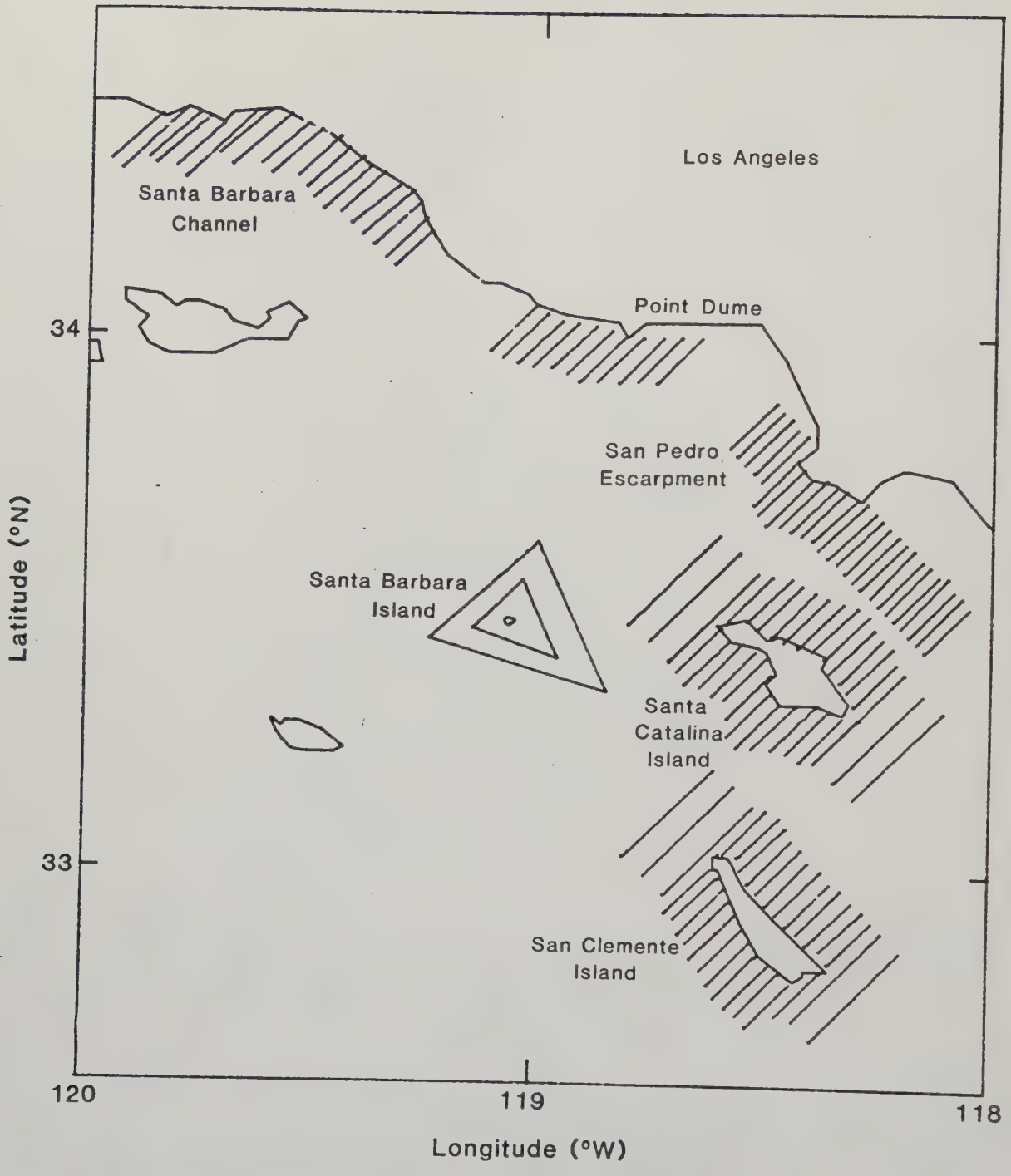

Figure 4 Experimental design of transects to be flown by the National Marine Fisheries Service within the Southern California Bight for pilot whales (Areas 1 - 6).

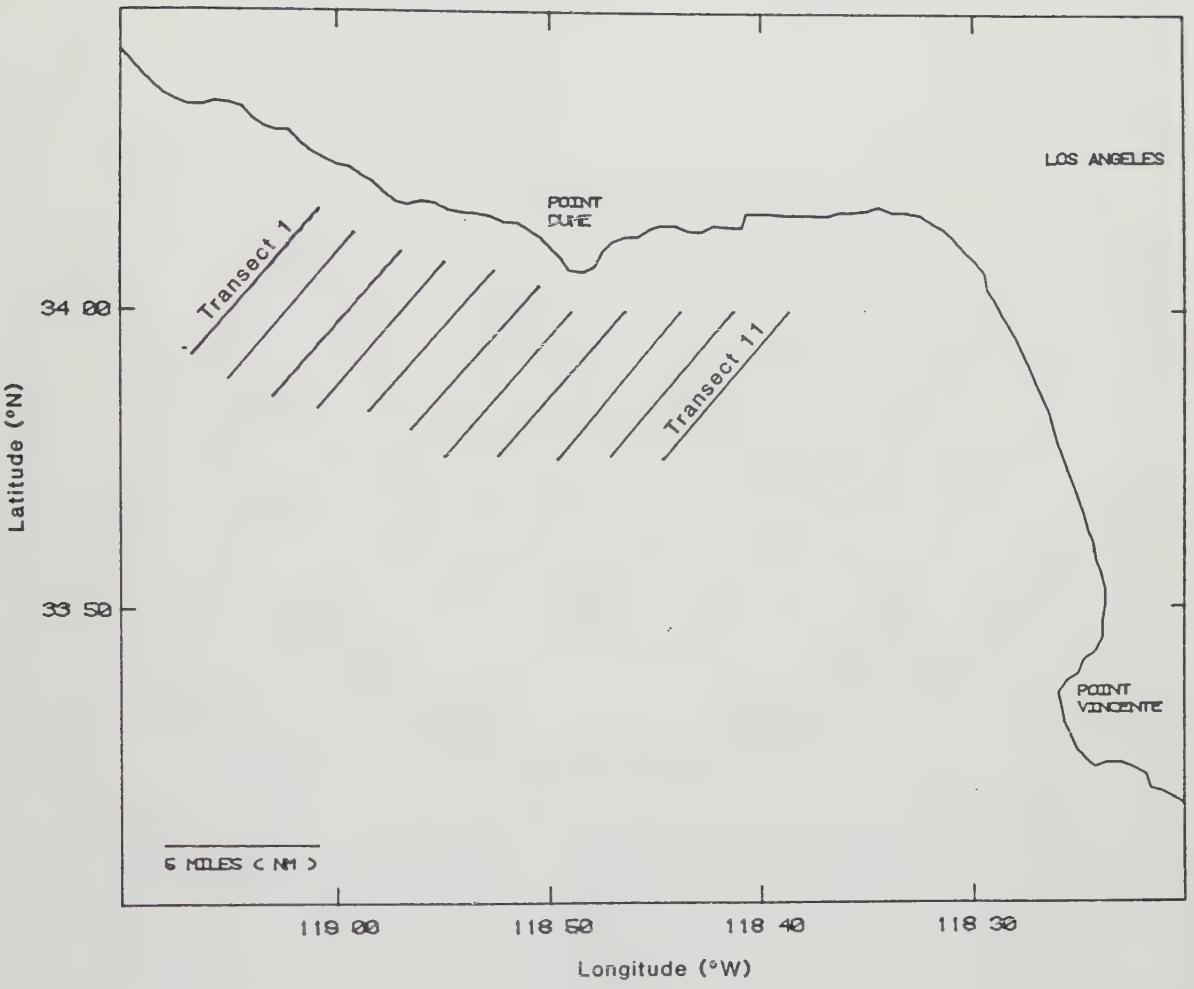

Figure 5 Experimental design of transects to be flown in the area of Point Dume (Area 2).

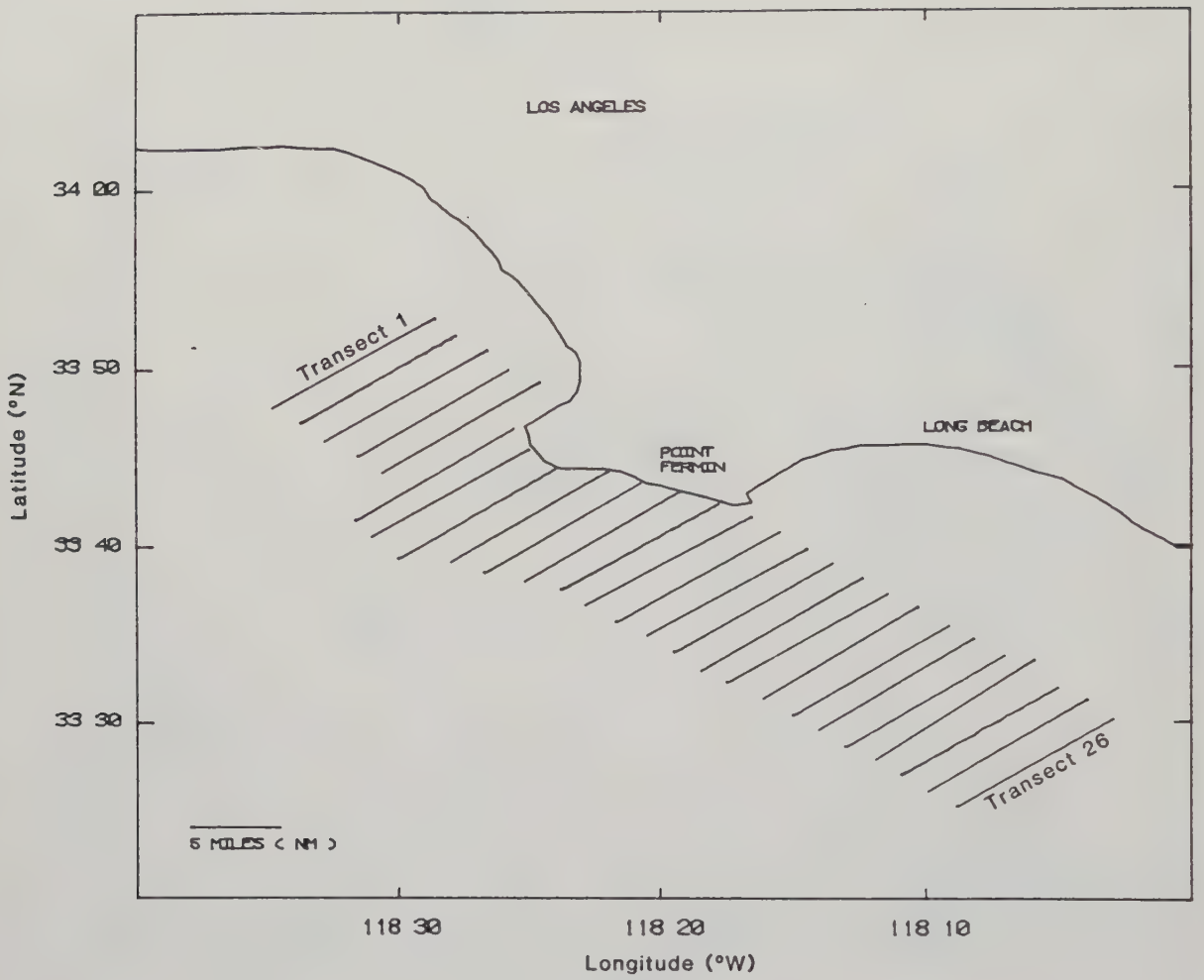

Figure 6 Experimental design of transects to be flown in the area of the San Pedro Escarpment (Area 3).

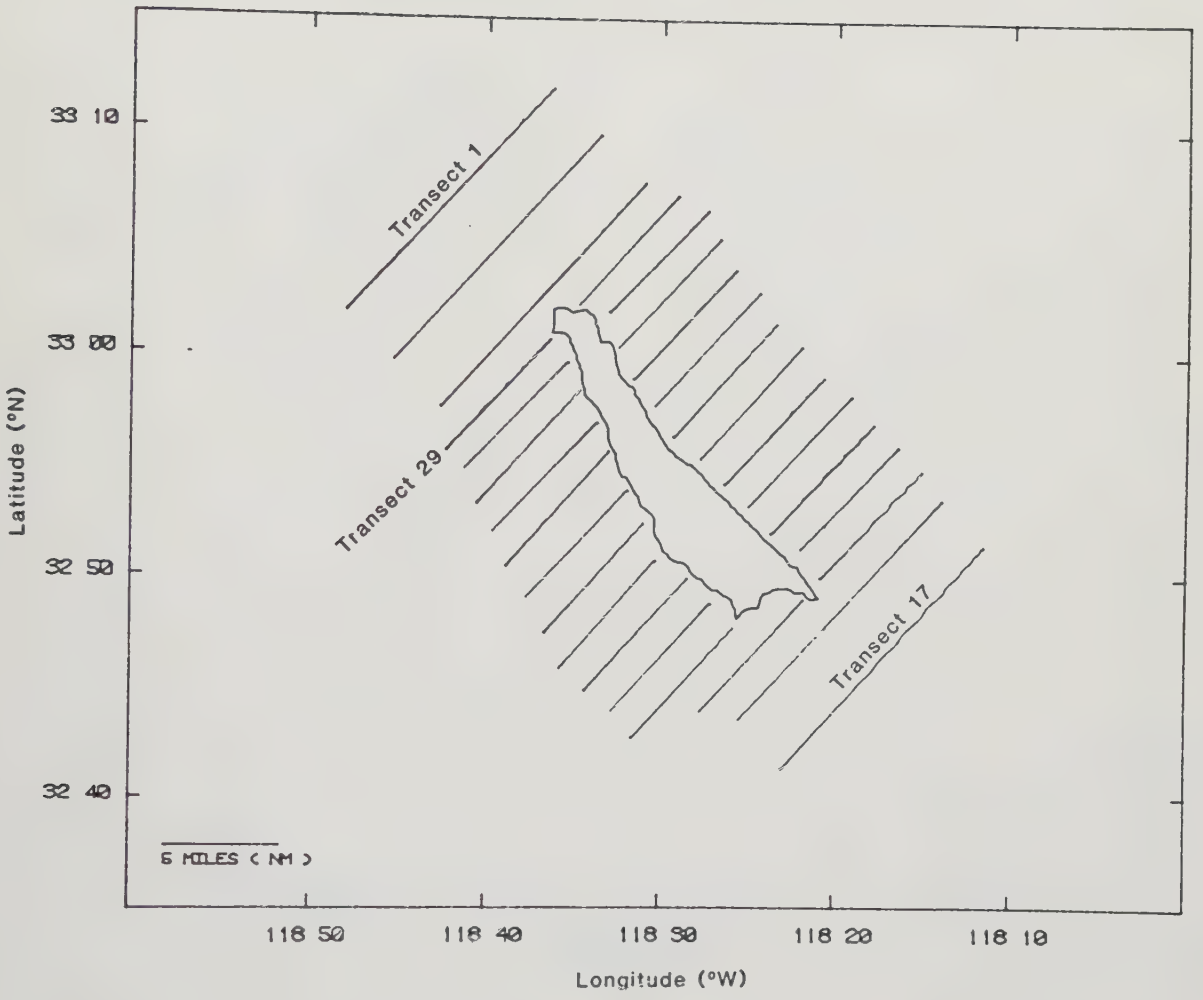

Figure 7 Experimental design of transects to be flown in the area of San Clemente Island (Area 4).

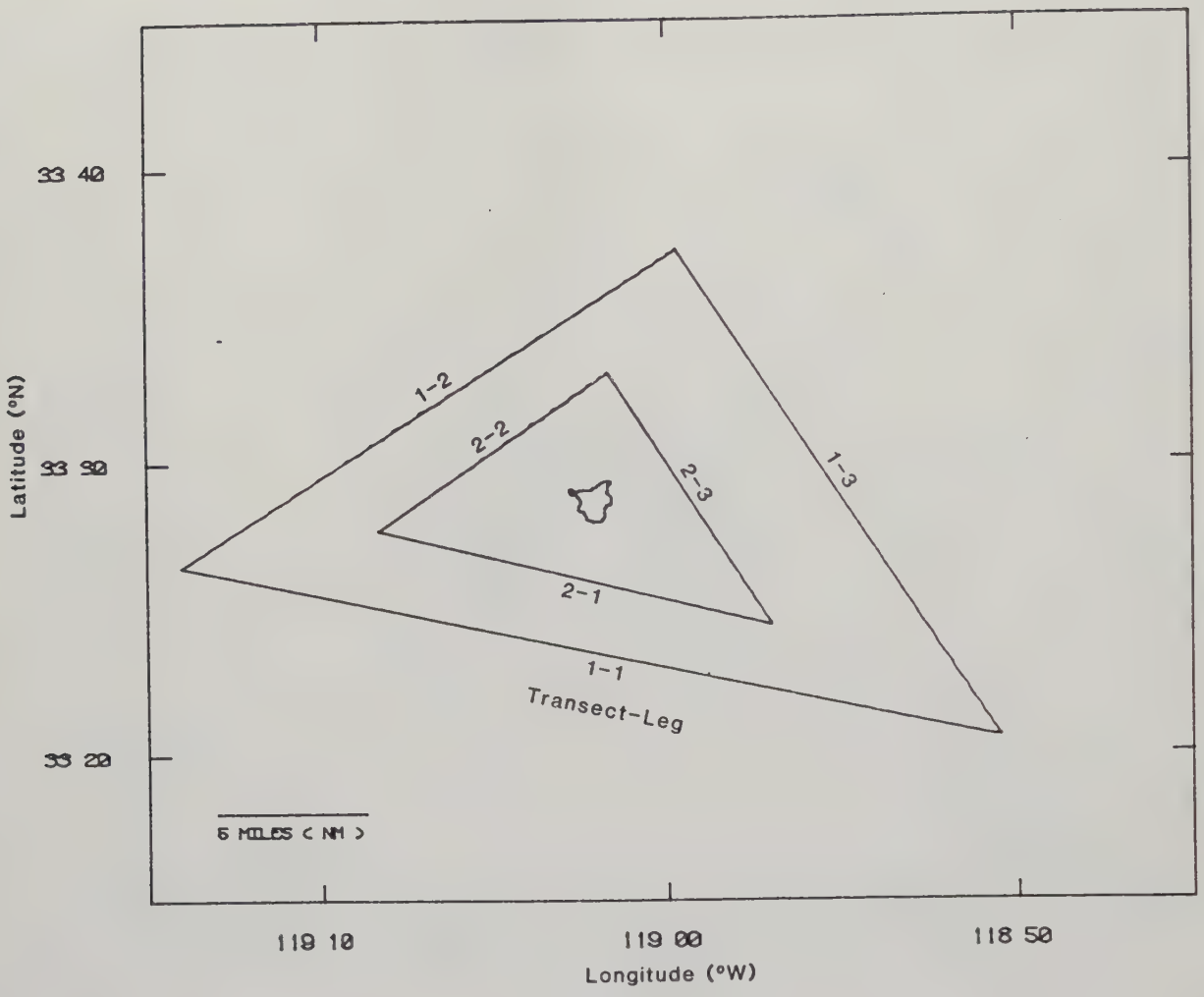

Figure 8 Experimental design of transects to be flown in the area of Santa Barbara Island (Area 5).

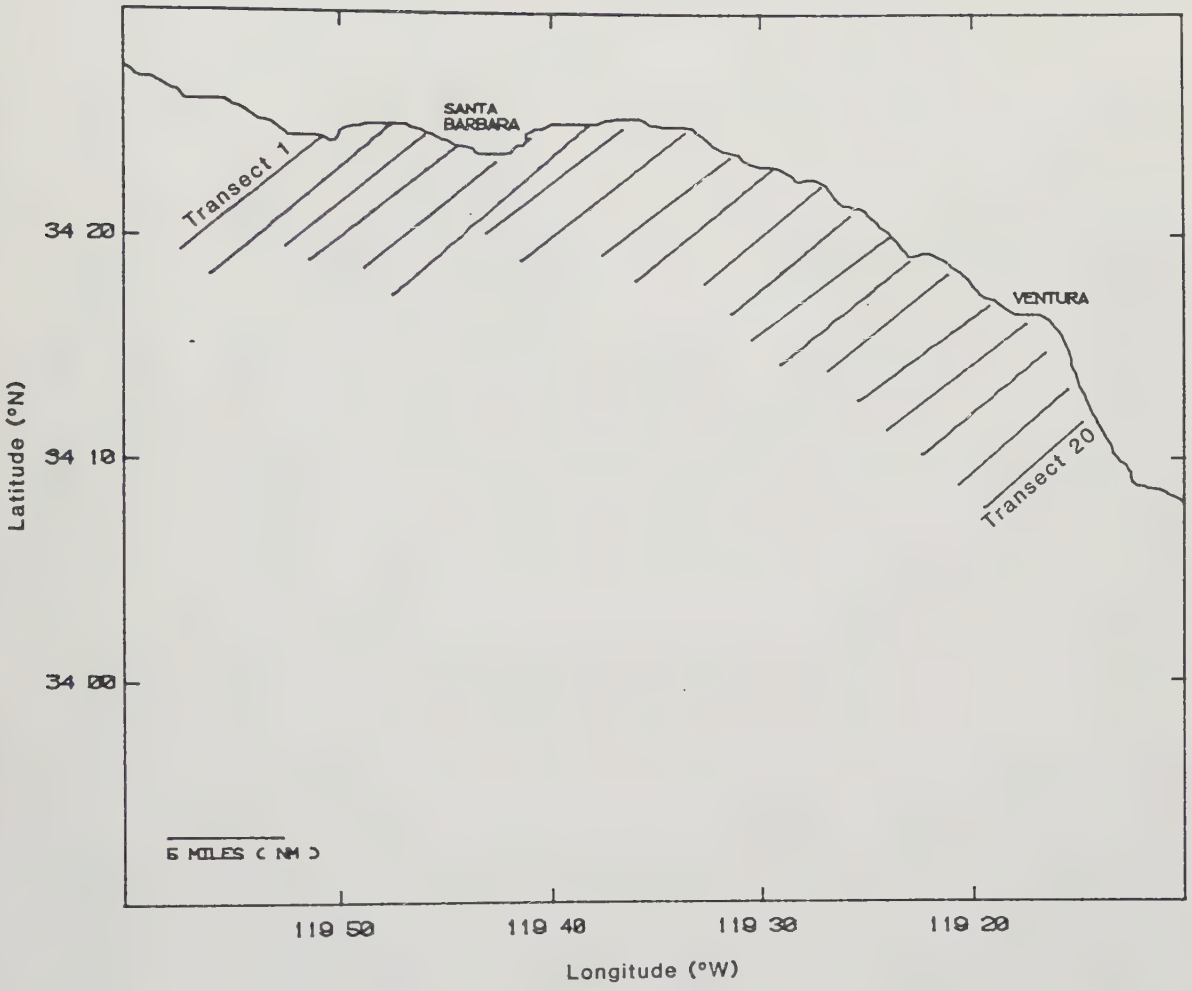

Figure 9 Experimental design of transects to be flown over the Santa Barbara Channel (Area 6).

Figure 10. California Department of Fish and Game Marine Mammal Offshore Aerial Survey Form (Field Form).

RECORDER_____

D.F.G. Marine Mammal Offshore Aerial Survey, Catalina (1980-81)

Date_____ Air speed _____

Transect # _____ Elevation _____

Leg # _____

Observers[1] _____ [2] _____ Flight remarks _____

Time sighted	Left or right inside	Left or right outside	Beaufort	Sun Horiz.	Sun Vert.	Cloud cover	Remarks

SPECIES:
A = Arctocephalus townsendi
C = Callorhinus ursinus
E = Eumetopias jubatus
M = Mirounga angustirostris
P = Phoca vitulina
Z = Zalophus californianus

D = Delphinus delphis
E = Eschrichtius robustus
Gg = Grampus griseus
Gm = Globicephala macrorhynus
Lb = Lissodelphis borealis
Lo = Lagenorhyncus obliquidens
Oo = Orcinus orca
Pc = Pseudorca crassidens
Pd = Phocoenoides dalli

Cloud cover:
1 - .9, overcast
.8 - .6, broken
.5 - .3, scattered
.2 - 0, clear

Figure 11. Aerial Survey Effort and Sighting Form for Strip Census (Field Form).

DATE_____ FLIGHT NO._____ AREA_____

Transect No. Sighting No. Divert Times	Start or End Leg/Sighting			Transect/Sighting Data									
				LEFT VISIBILITY			RIGHT VISIBILITY						
	LAT	LONG	TIME	IN	OUT	EXTRA	IN	OUT	EXTRA	Beaufort	Vert. Sun	Horiz. Sun	Altitude

Figure 12. Aerial Survey Effort and Sighting Form for Strip Census (Data Coding Form).

AERIAL SURVEY EFFORT AND SIGHTING RECORD FOR STRIP CENSUS

FLIGHT AREA _____ FLIGHT NUMBER _____ DATE _____

FROM _____ TO _____

AREA	FLIGHT NO.	TRANS NO.	LEG NO.	DATE: YEAR	DATE: MONTH	DATE: DAY	SURVEY ALTITUDE (feet)	EST. GROUND SPEED (kts)	OBSERVERS: LEFT	OBSERVERS: RIGHT	HAZE	SKY	PENETRATION: LEFT I	PENETRATION: LEFT O	PENETRATION: RIGHT I	PENETRATION: RIGHT O	SUN POSITIONS: Horzt.	SUN POSITIONS: Vert.	BEAUFORT	SWATH WIDTH CODE
1	2	4	6	8	10	12	14	18	21	23	25	27		29		31	33	35		

LATITUDE: DEGREE	LATITUDE: MINUTE	N/S	LONGITUDE: DEGREE	LONGITUDE: MINUTE	E/W	LOCAL TIME	REASON FOR POSITION (1. Begin leg 2. Track check 3. Divert 4. Overschool 5. Return 6. End leg)	SEARCHING? Y/N	SIGHTING NUMBER	SIGHTING NUMBER: Sub.	PILOT WHALE?	LEFT OR RIGHT	IN/OUT/EXTRA	COUNTS?	SPECIES: NUMBER	SPECIES: CODE	DIRECTION OF TRAVEL	DECLINATION ANGLE
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	.			.		.												
36	38	41	42	45	48	49 53	54	55	56	58	59	60	61	62	63	66	68	70 71

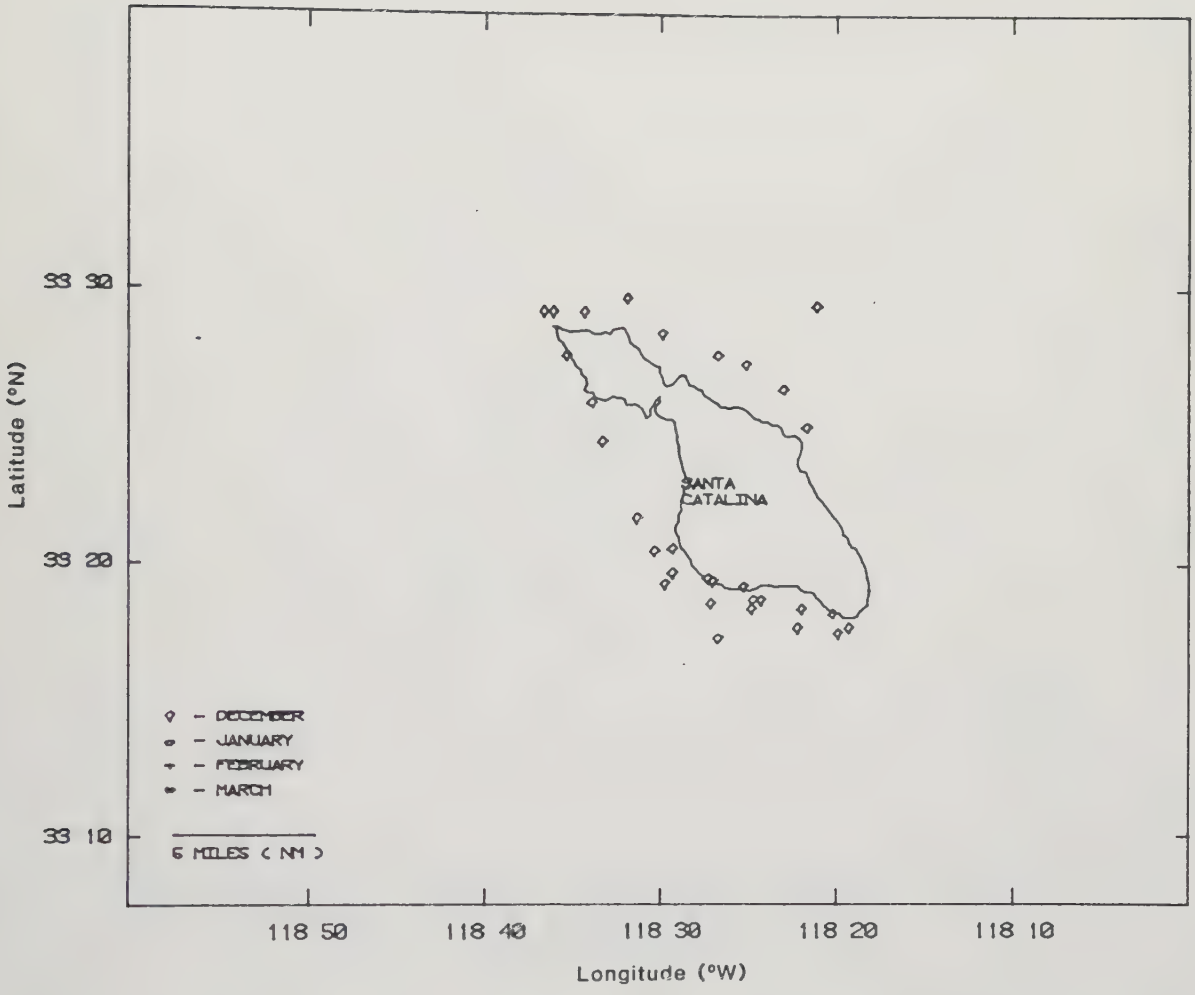


Figure 13 Sightings of pilot whales around Santa Catalina Island during December 1980.

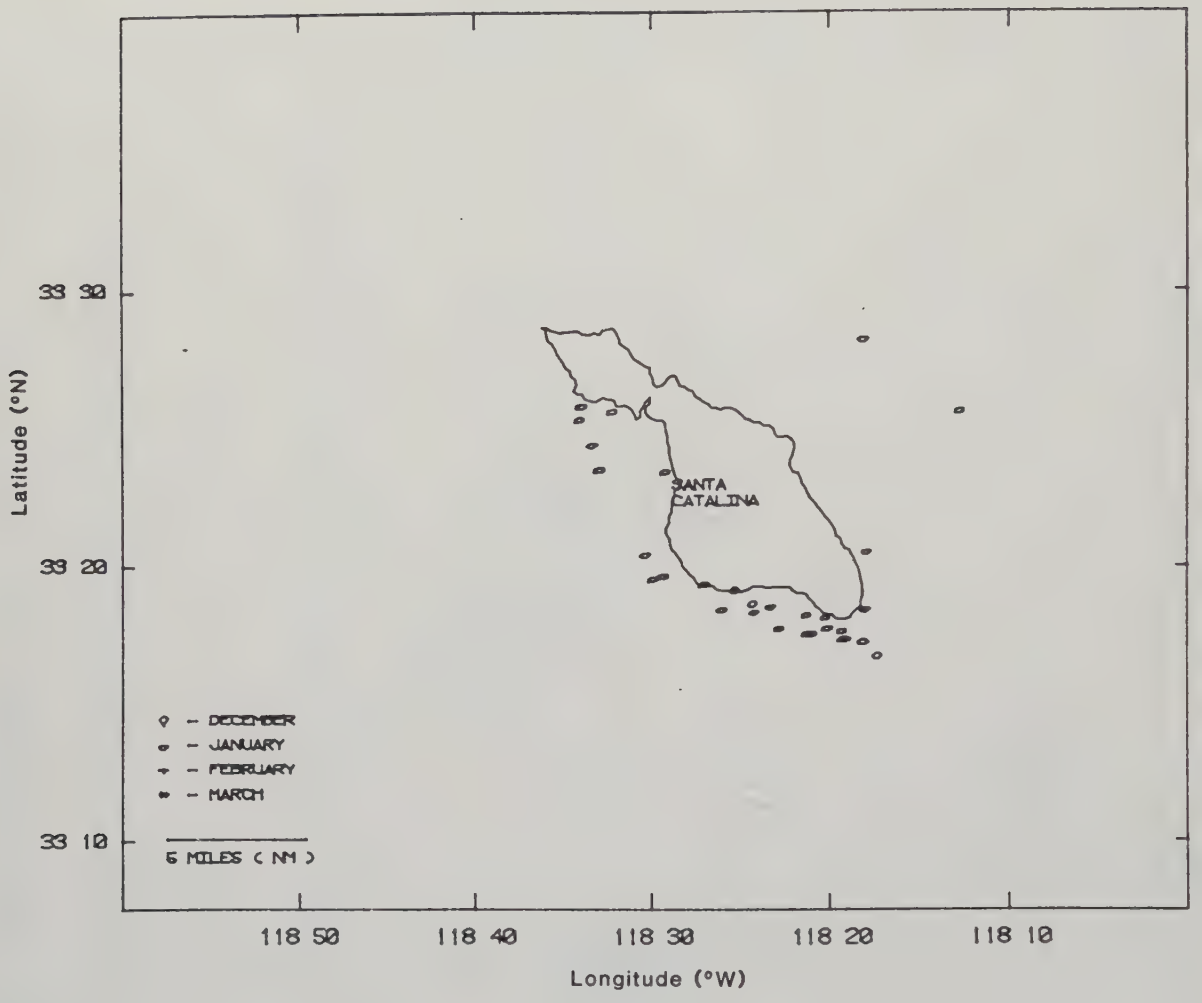


Figure 14 Sightings of pilot whales around Santa Catalina Island during January 1981.

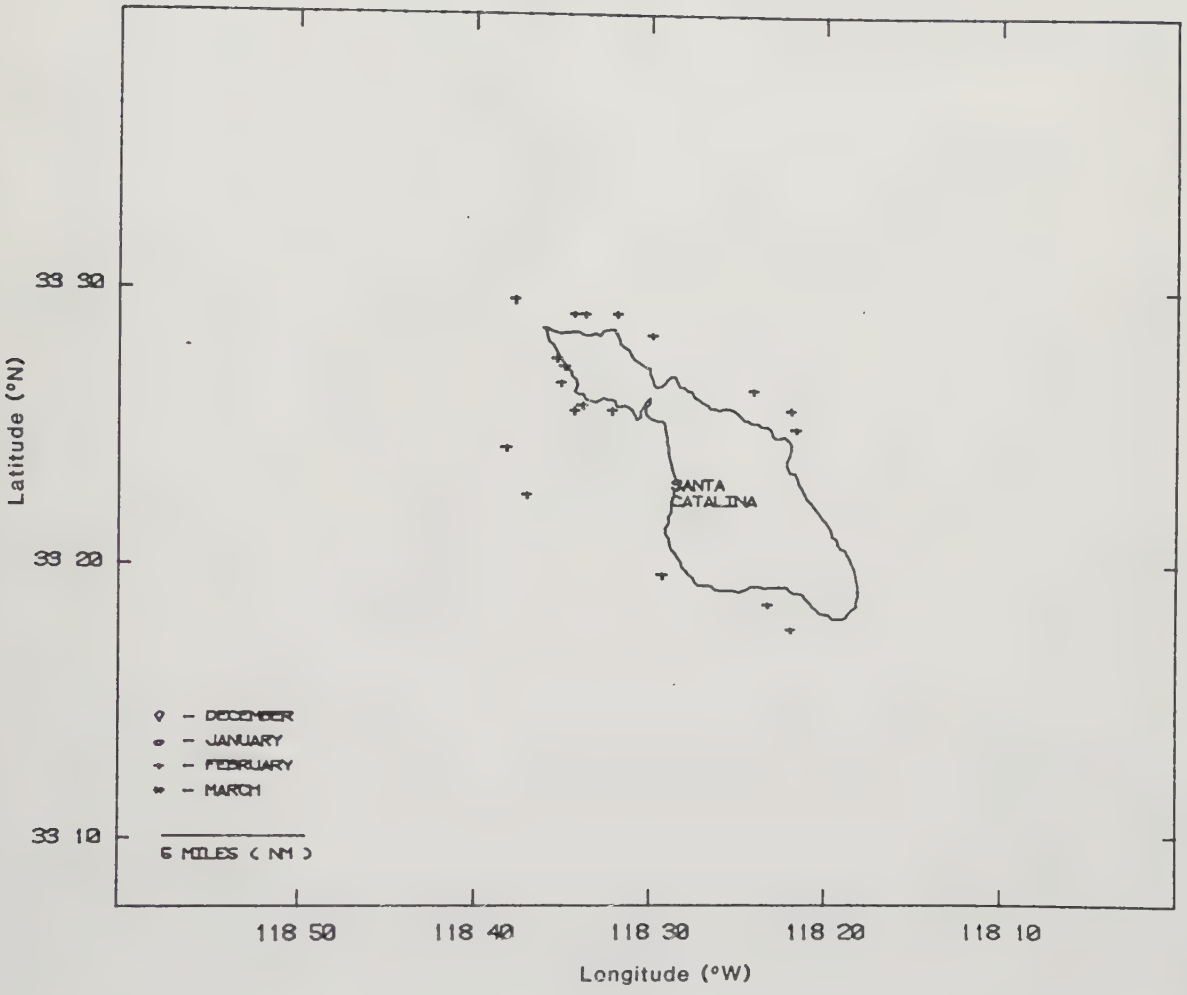


Figure 15 Sightings of pilot whales around Santa Catalina Island during February 1981.

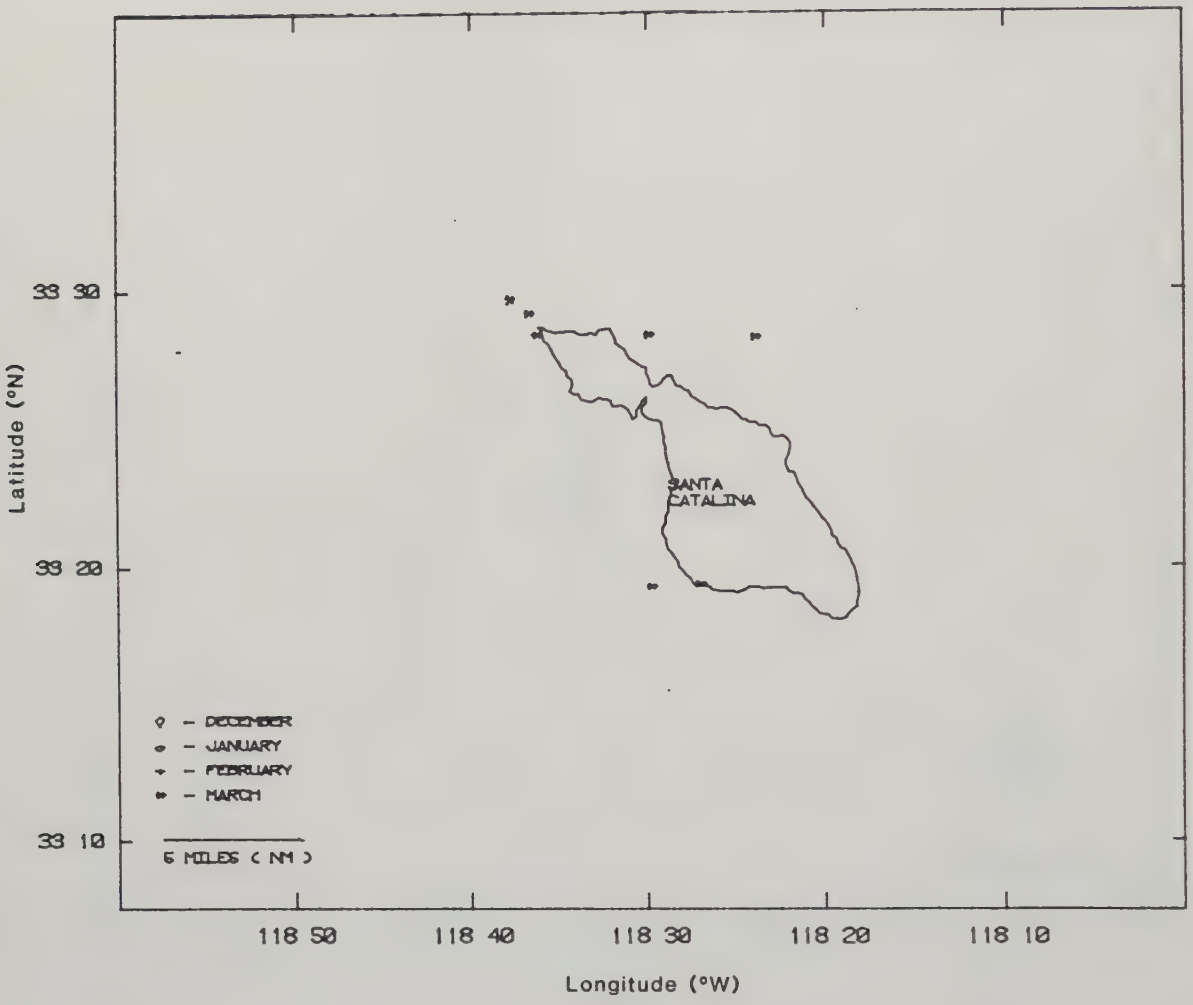


Figure 16 Sightings of pilot whales around Santa Catalina Island during March 1981.

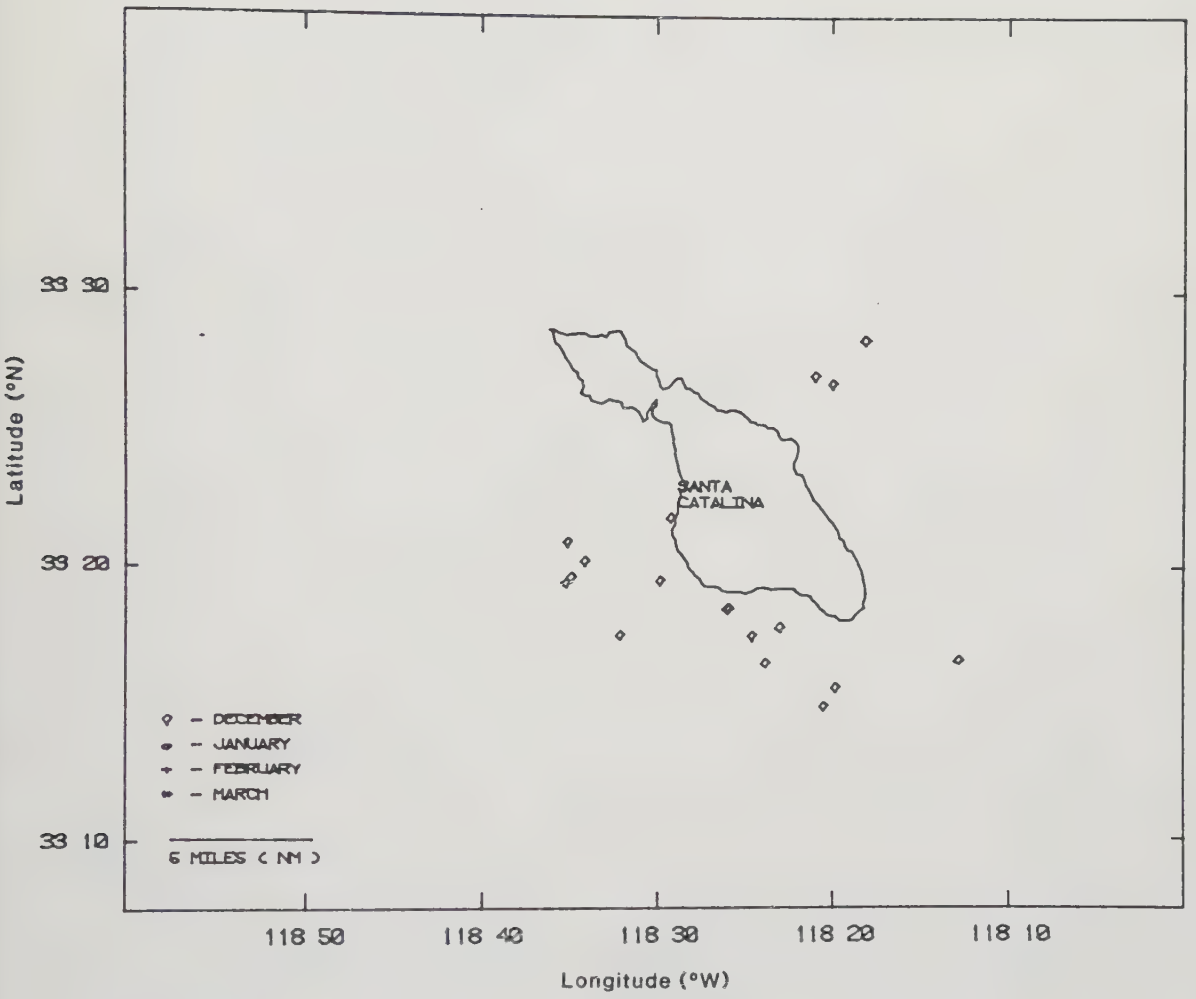


Figure 17 Sightings of pilot whales around Santa Catalina Island during December 1982.

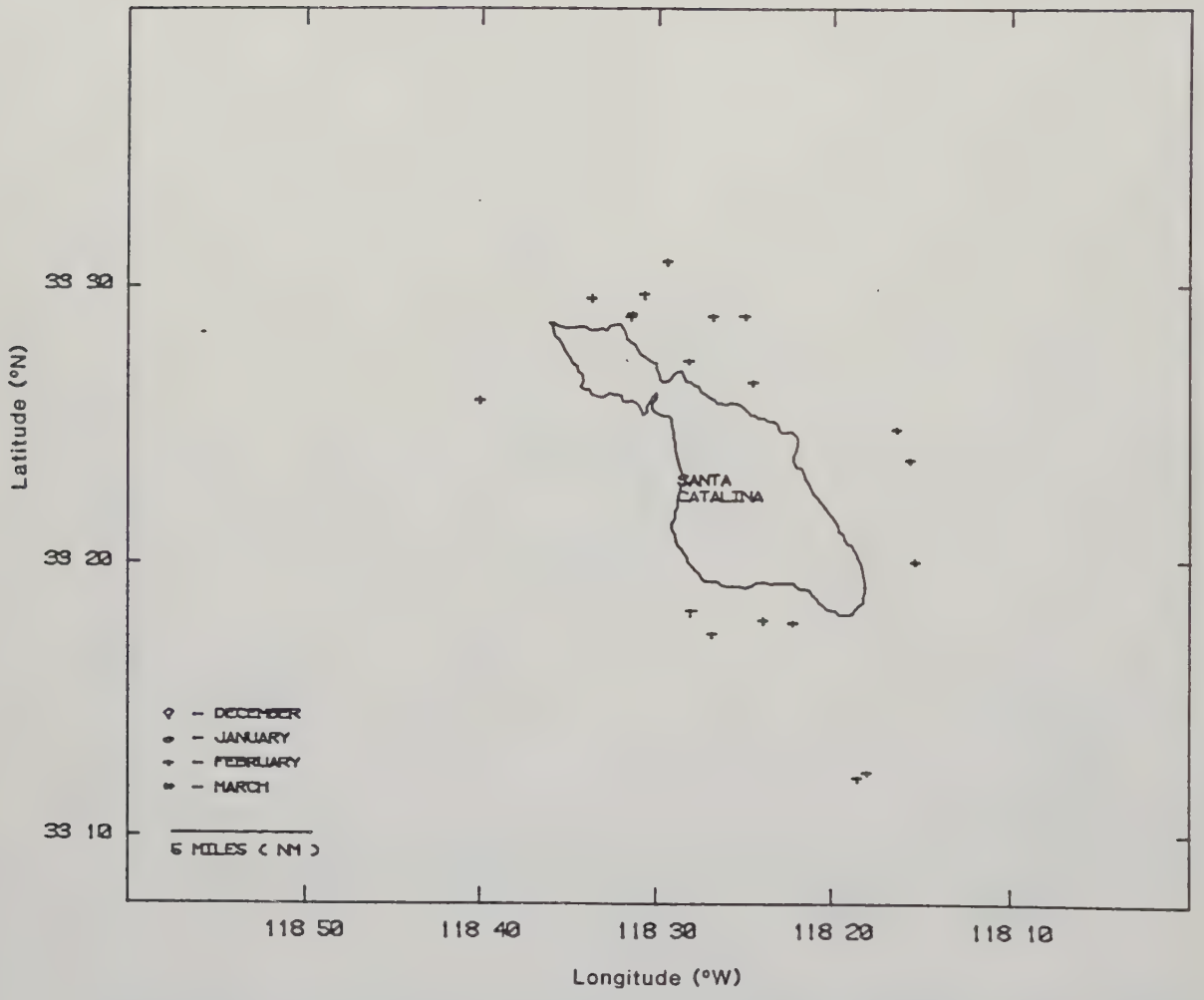


Figure 18 Sightings of pilot whales around Santa Catalina Island during February 1983.

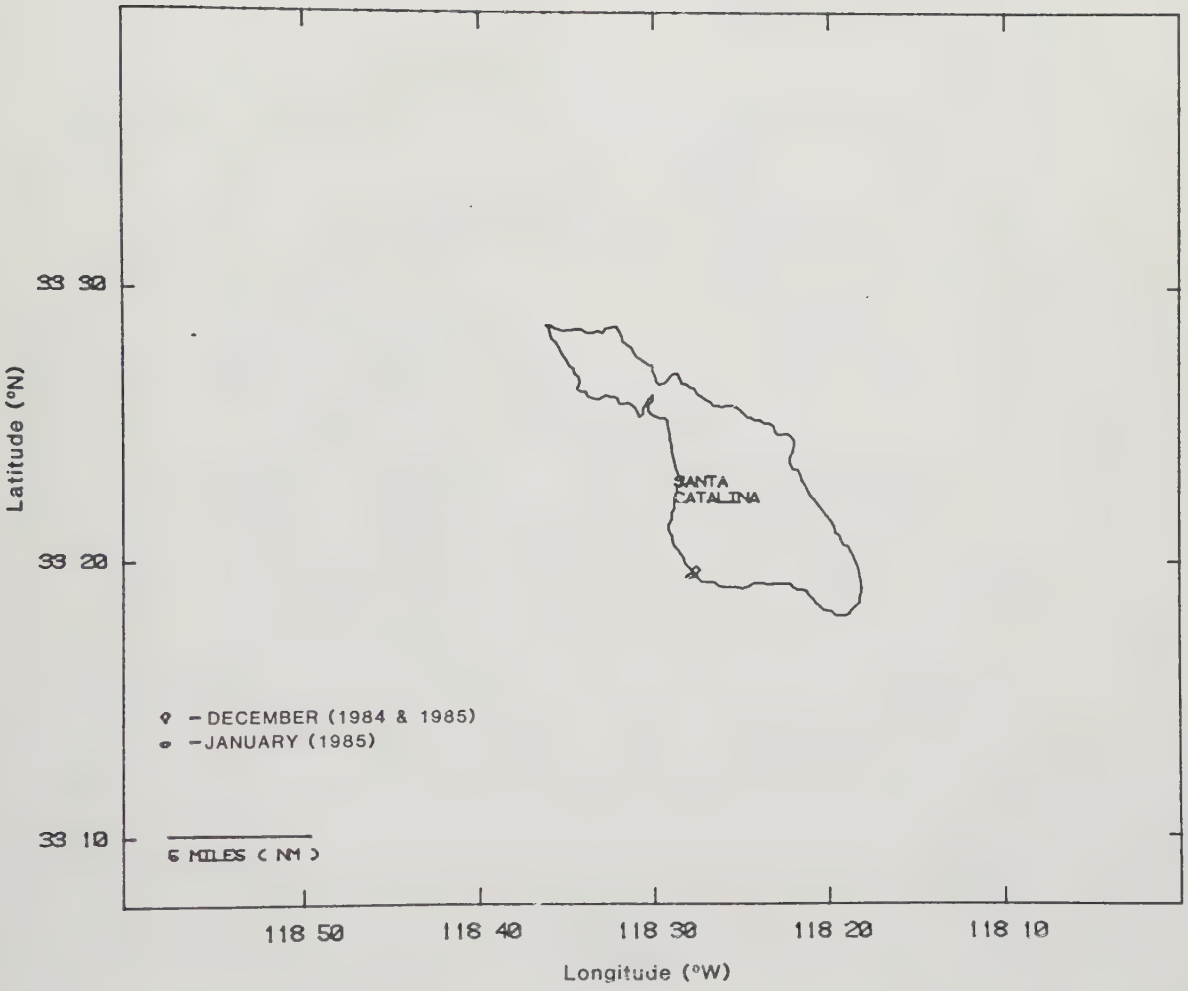


Figure 19 Sightings of pilot whales around Santa Catalina Island during December 1984, January 1985, and December 1985.

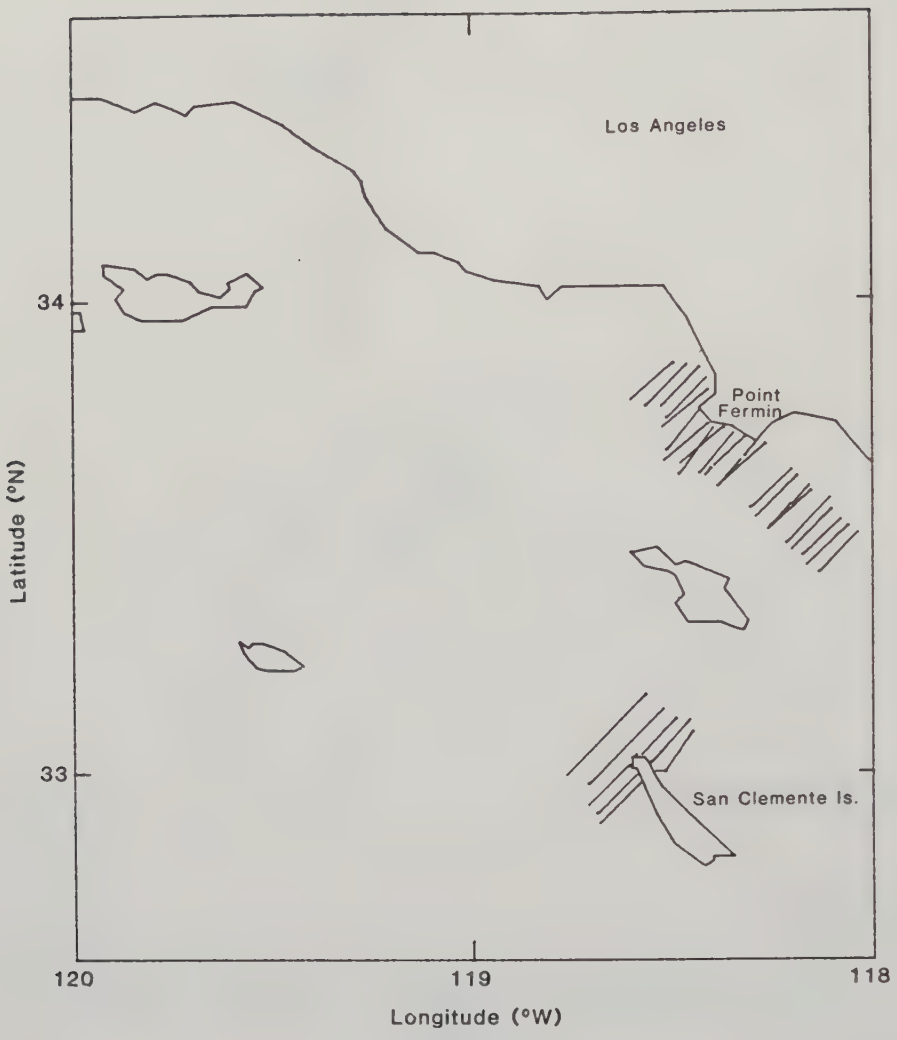


Figure 20 Transects flown at the San Pedro Escarpment and San Clemente Island during January 1984. Pilot whales were not observed.

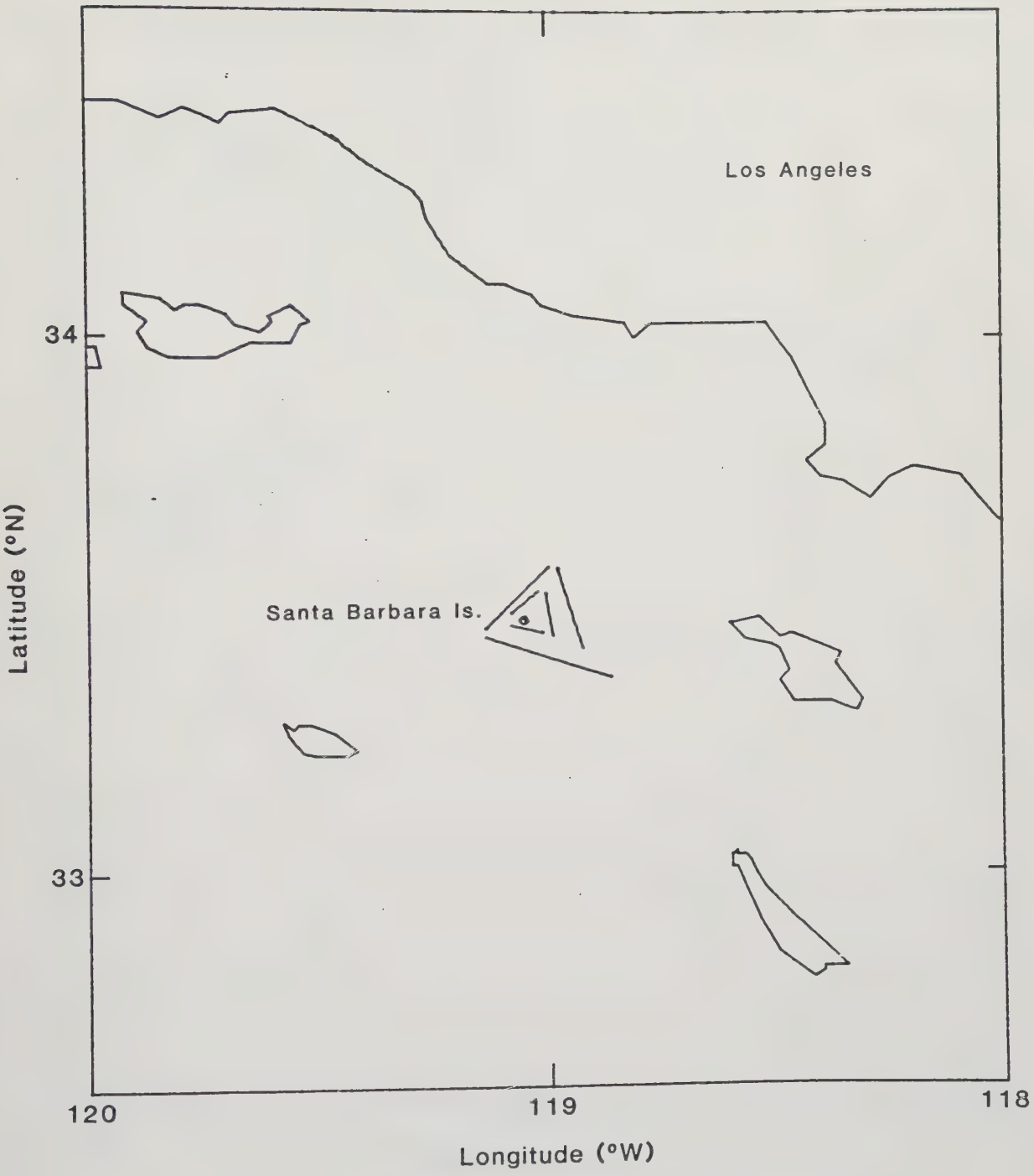


Figure 21 Transects flown around Santa Barbara Island during December 1984. Pilot whales were not observed.

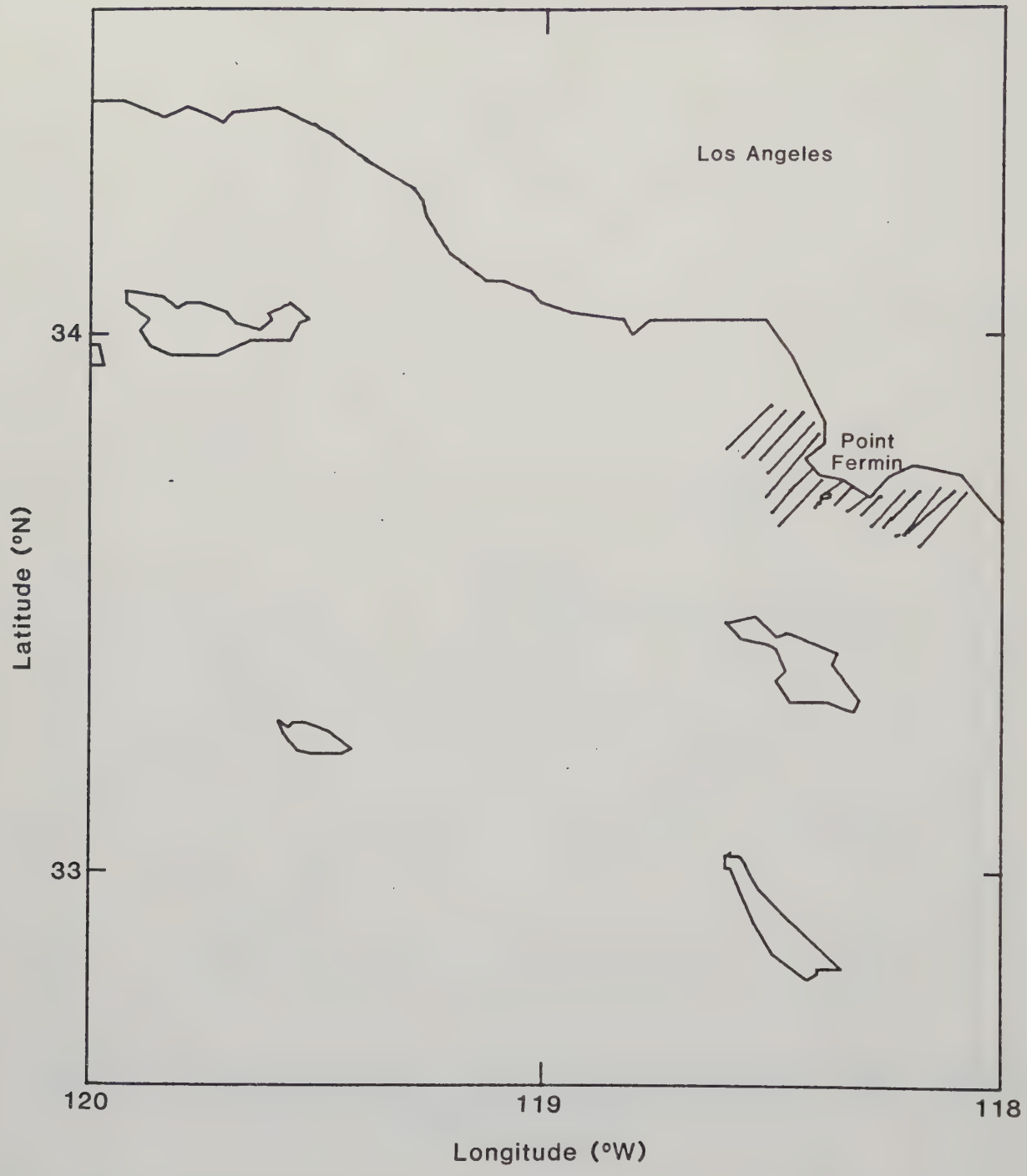


Figure 22 Transects flown at the San Pedro Escarpment on January 15, 1985. One group of pilot whales was observed.

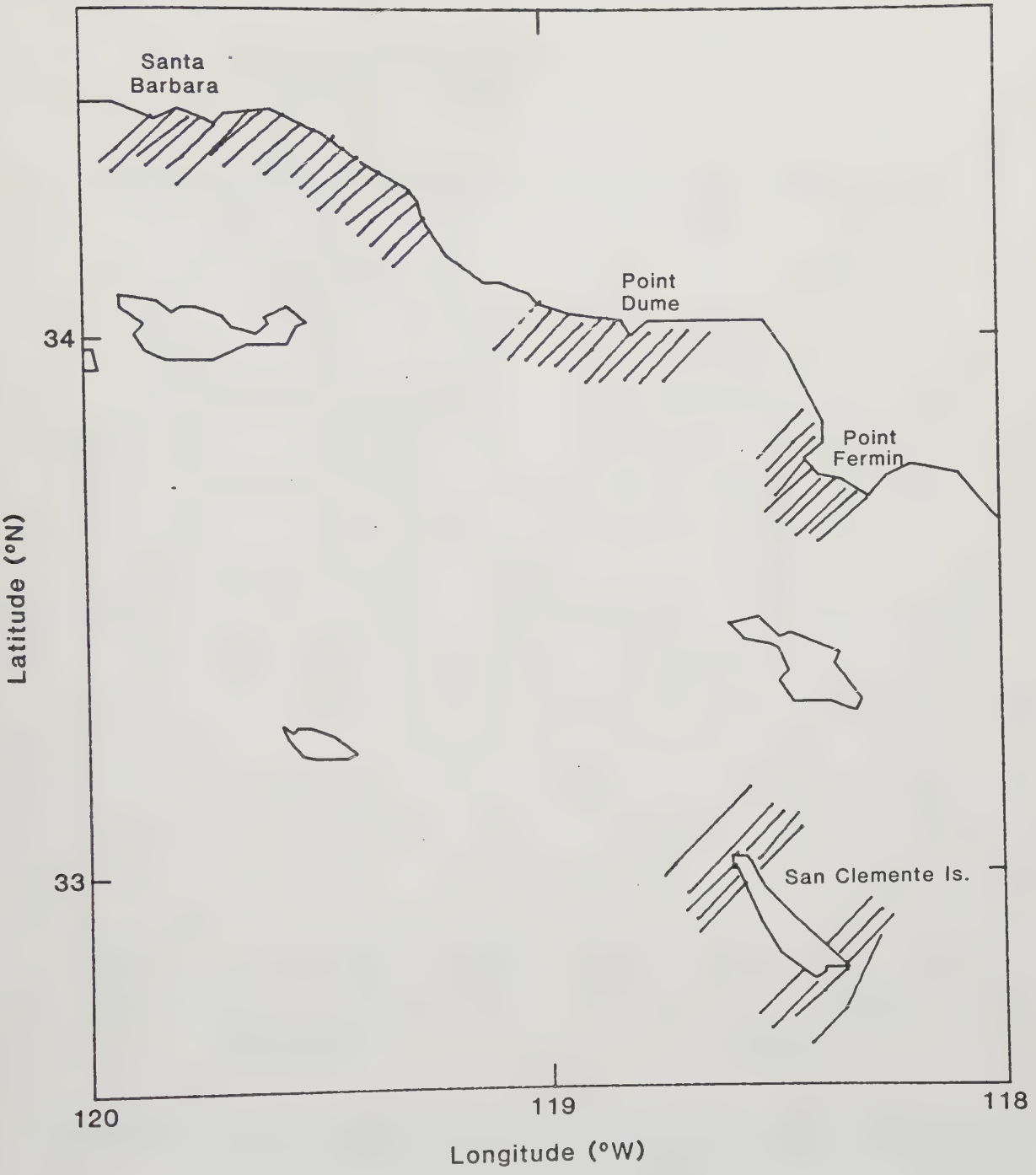


Figure 23 Transects flown over the Santa Barbara Channel, Point Dume, the San Pedro Escarpment, and around San Clemente Island during January 16-18, 1985. Pilot whales were not observed.

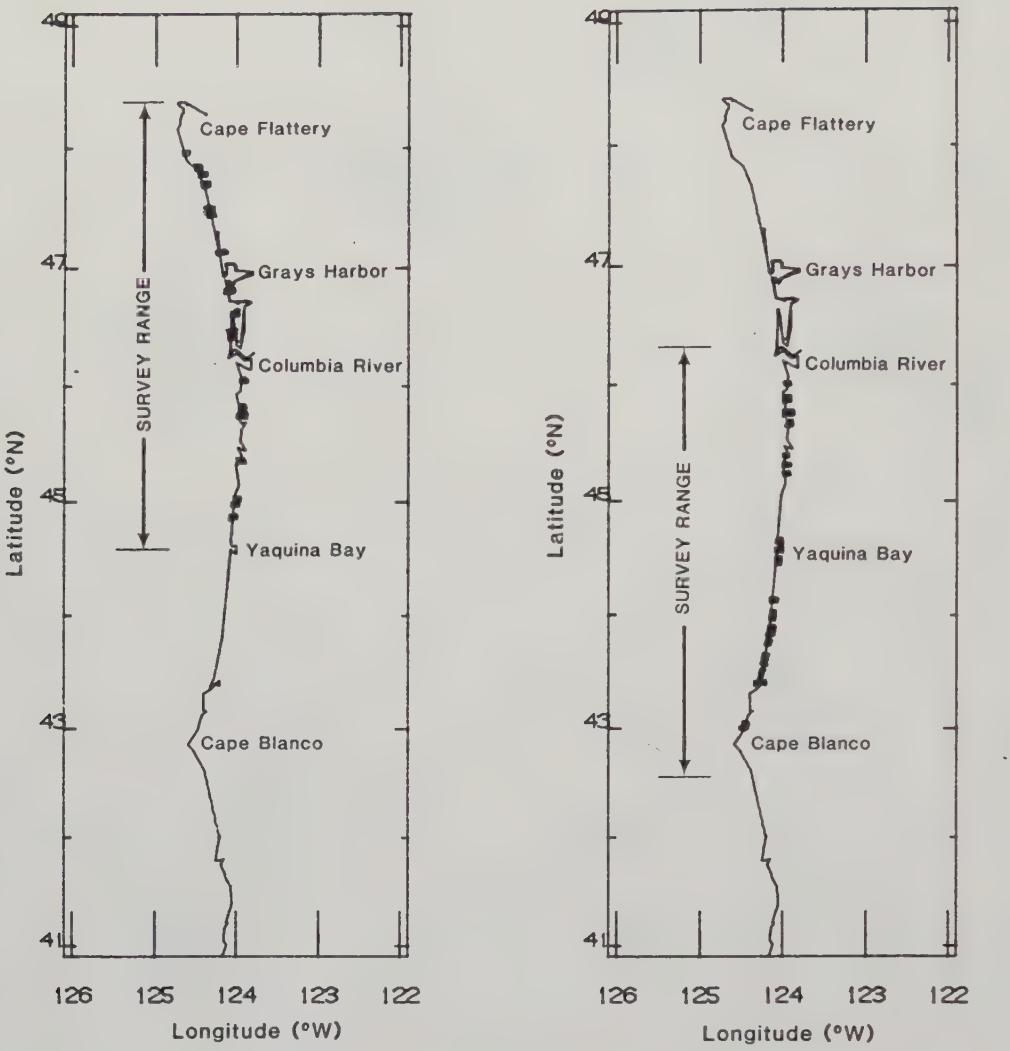


Figure 24 Sightings of harbor porpoise during Flight 1 of the 1984 survey on September 9, 1984.

Figure 25 Sightings of harbor porpoise during Flight 2 of the 1984 survey on September 10, 1984.

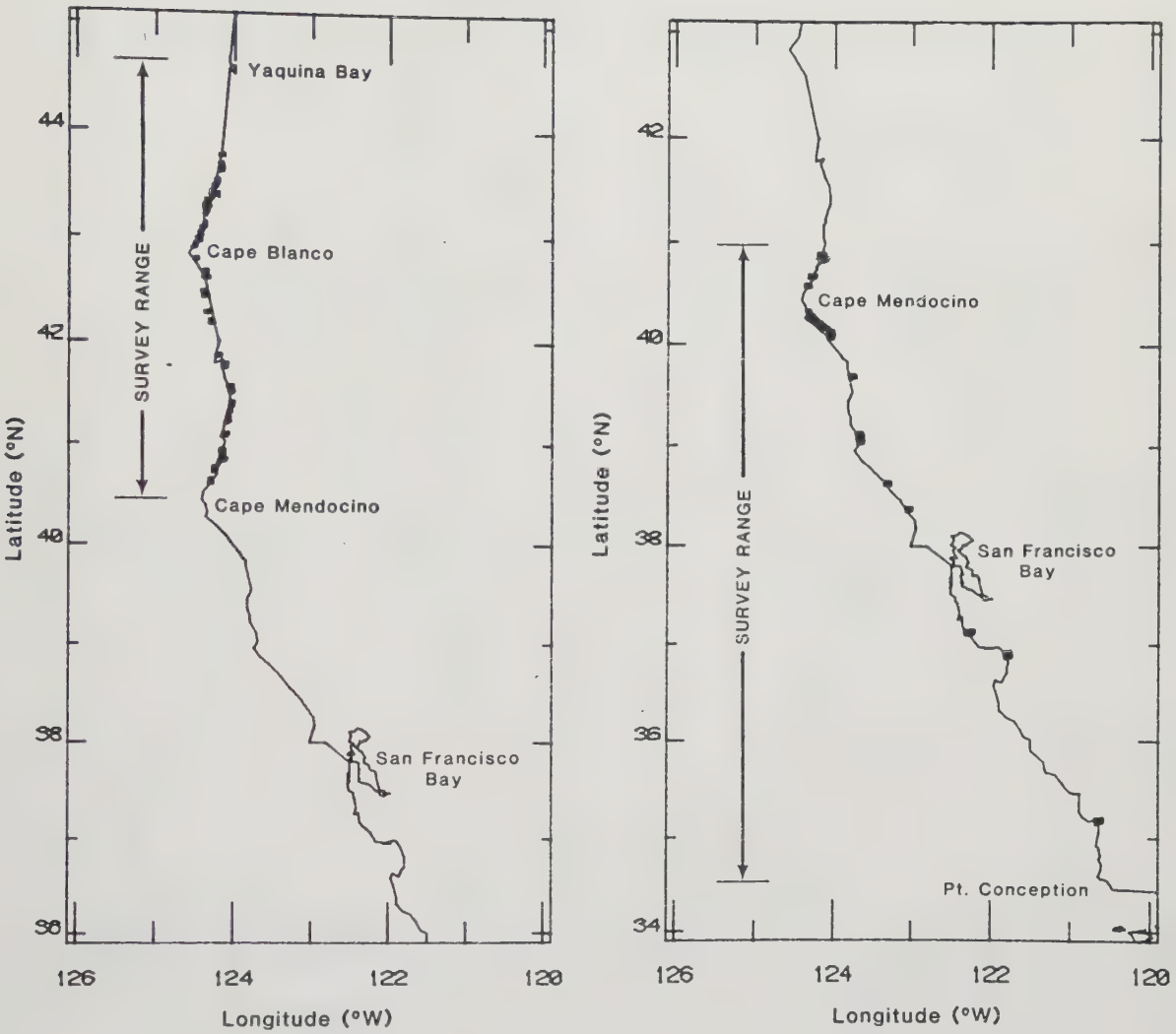


Figure 26 Sightings of harbor porpoise during Flight 3 of the 1984 survey on September 11, 1984.

Figure 27 Sightings of harbor porpoise during Flight 4 of the 1984 survey on September 13, 1984.

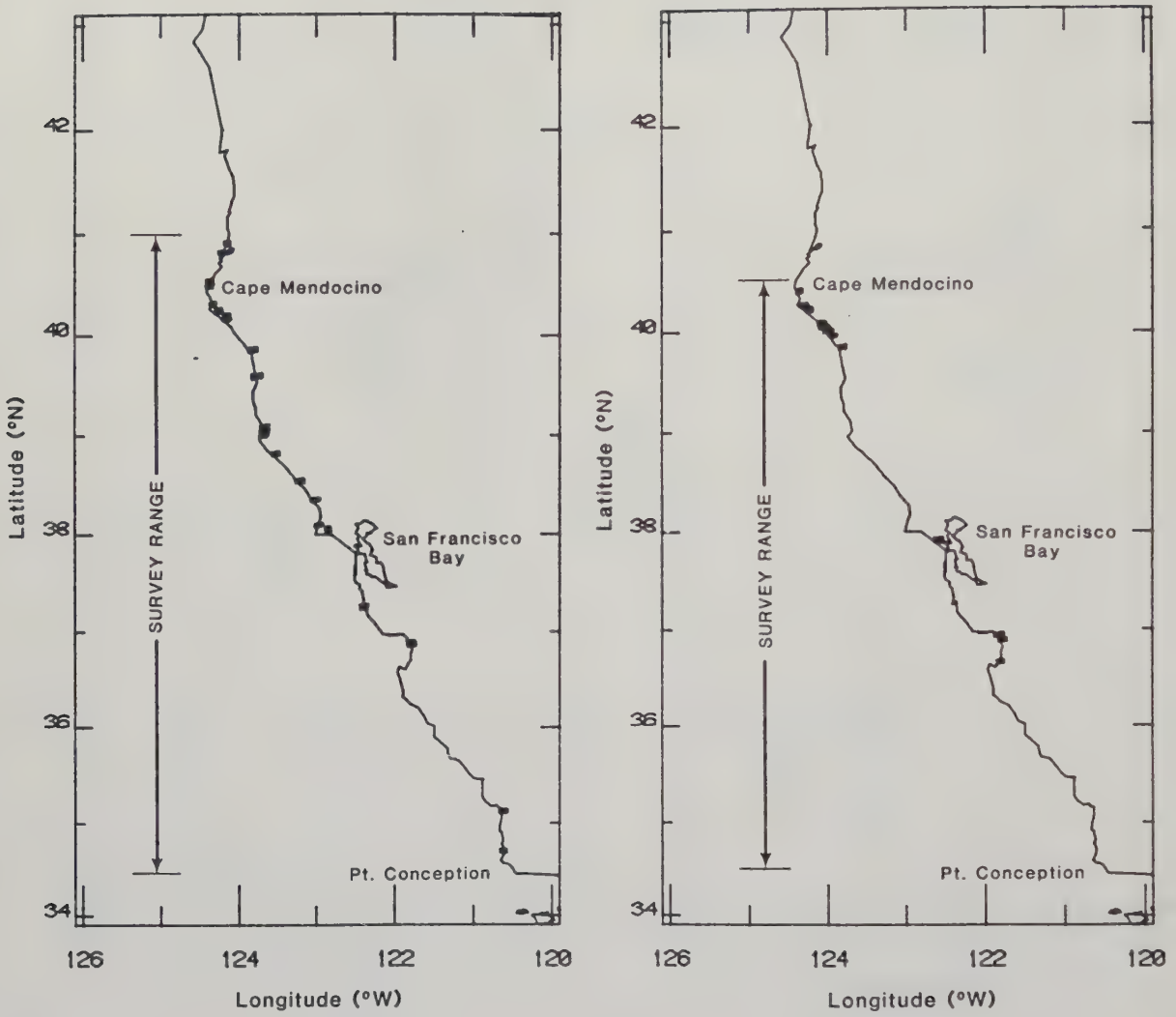


Figure 28 Sightings of harbor porpoise during Flight 5 of the 1984 survey on September 14, 1984.

Figure 29 Sightings of harbor porpoise during Flight 6 of the 1984 survey on September 17, 1984.

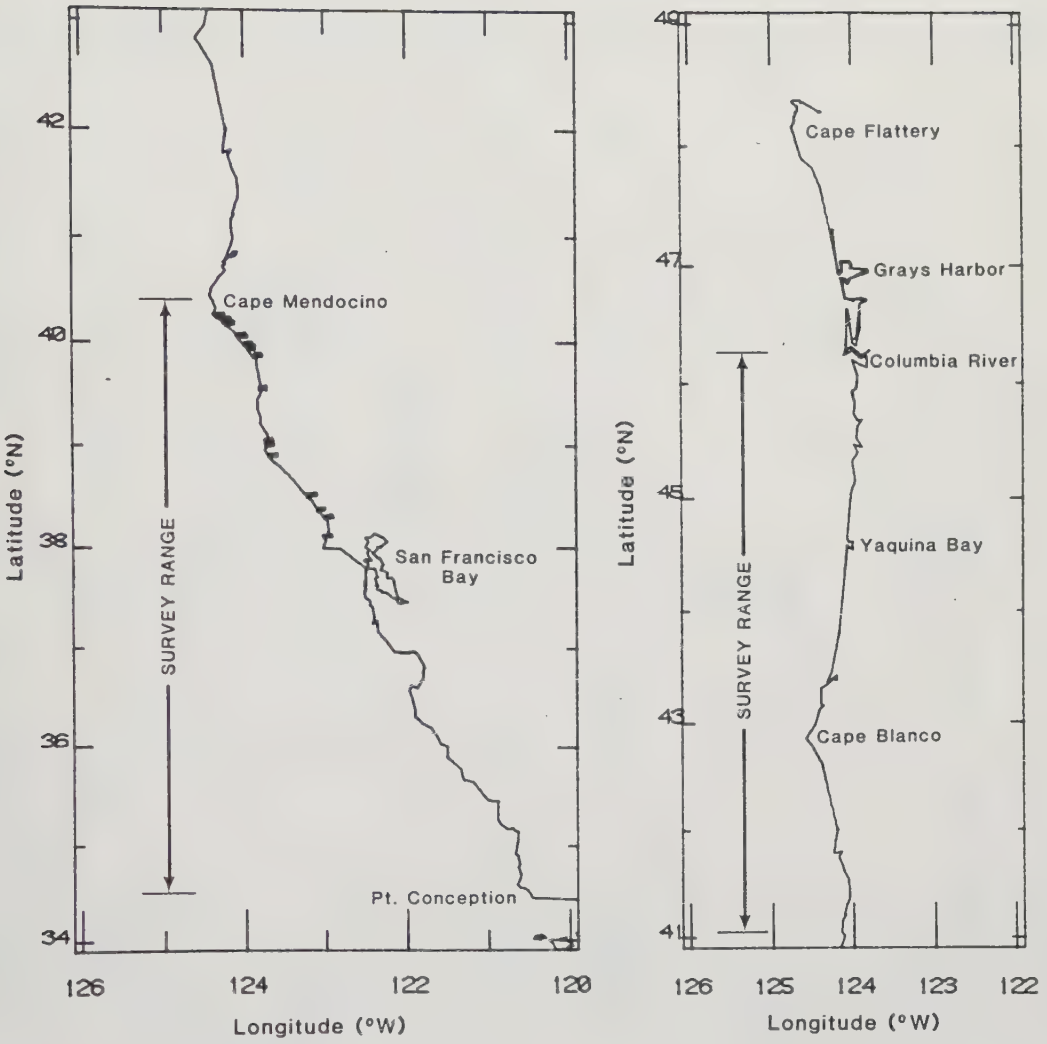


Figure 30 Sightings of harbor porpoise during Flight 7 of the 1984 survey on September 18, 1984.

Figure 31 Sightings of harbor porpoise during Flight 1 of the 1985 survey on September 11, 1985. Harbor porpoise were not observed.

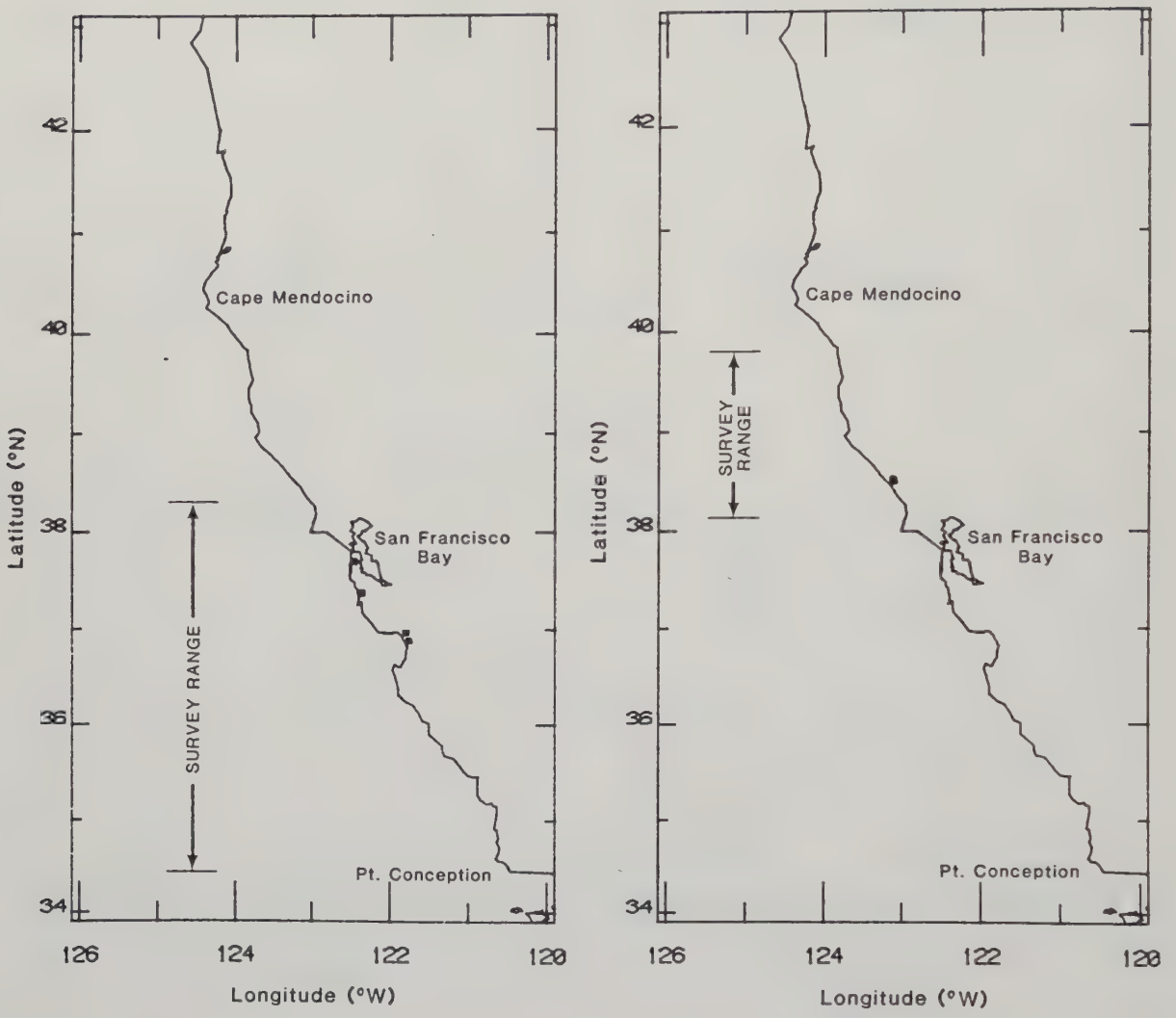


Figure 32 Sightings of harbor porpoise during Flight 2 of the 1985 survey on September 16, 1985.

Figure 33 Sightings of harbor porpoise during Flight 3 of the 1985 survey on September 17, 1985.

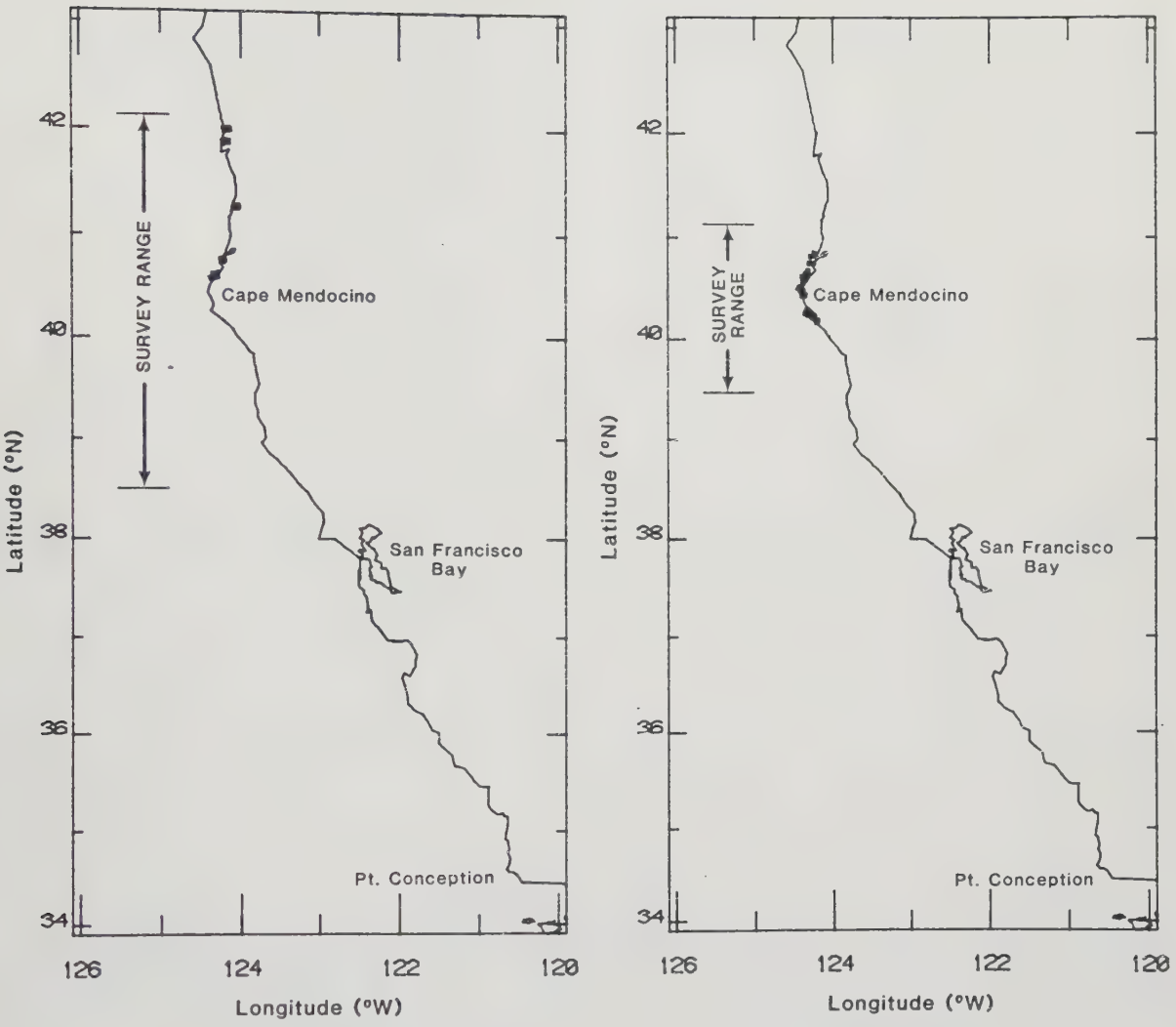


Figure 34 Sightings of harbor porpoise during Flights 4-5 of the 1985 survey on September 18, 1985.

Figure 35 Sightings of harbor porpoise during Flights 6-9 of the 1985 survey on September 19, 1985.

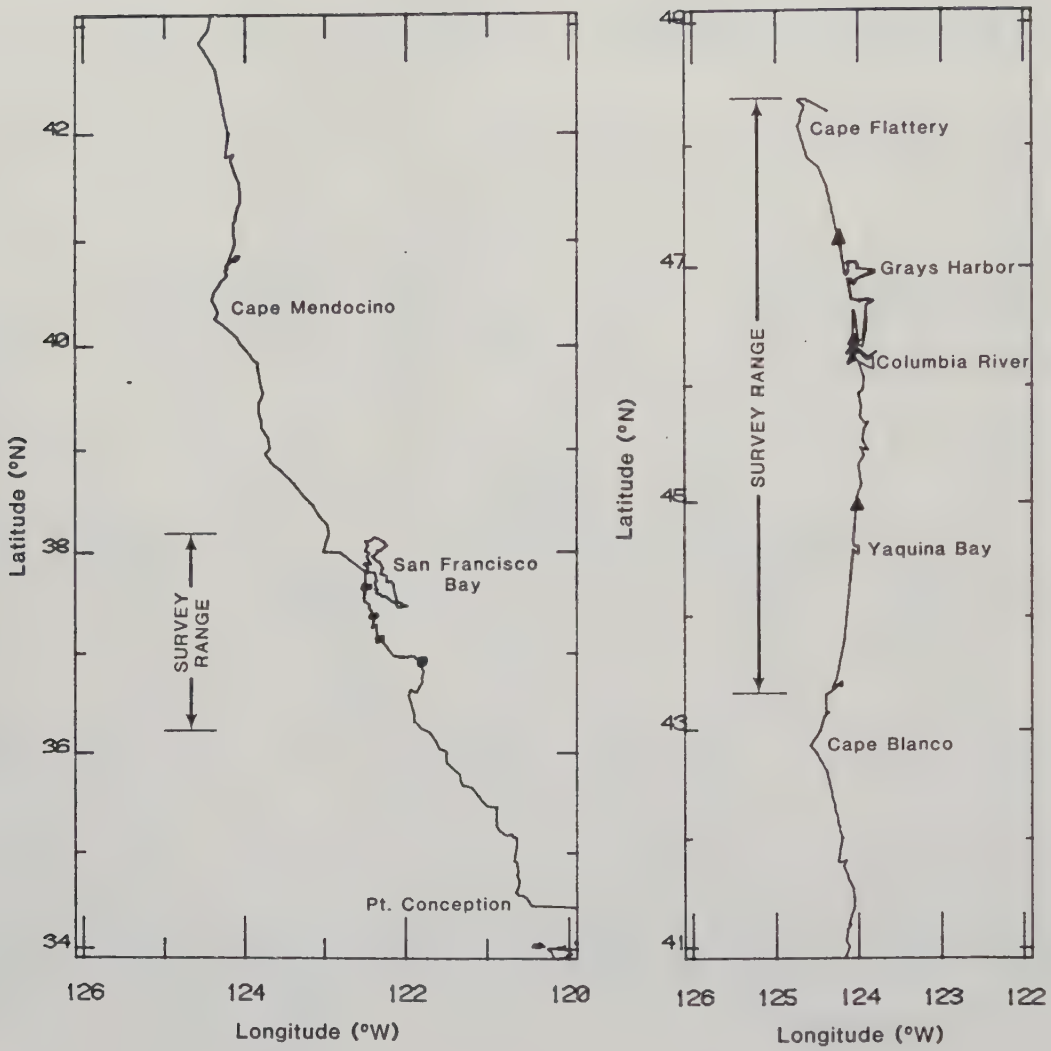


Figure 36 Sightings of harbor porpoise during Flight 10 of the 1985 survey on September 20, 1985.

Figure 37 Sightings of harbor porpoise during Flight 11 of the 1985 survey on October 4, 1985.

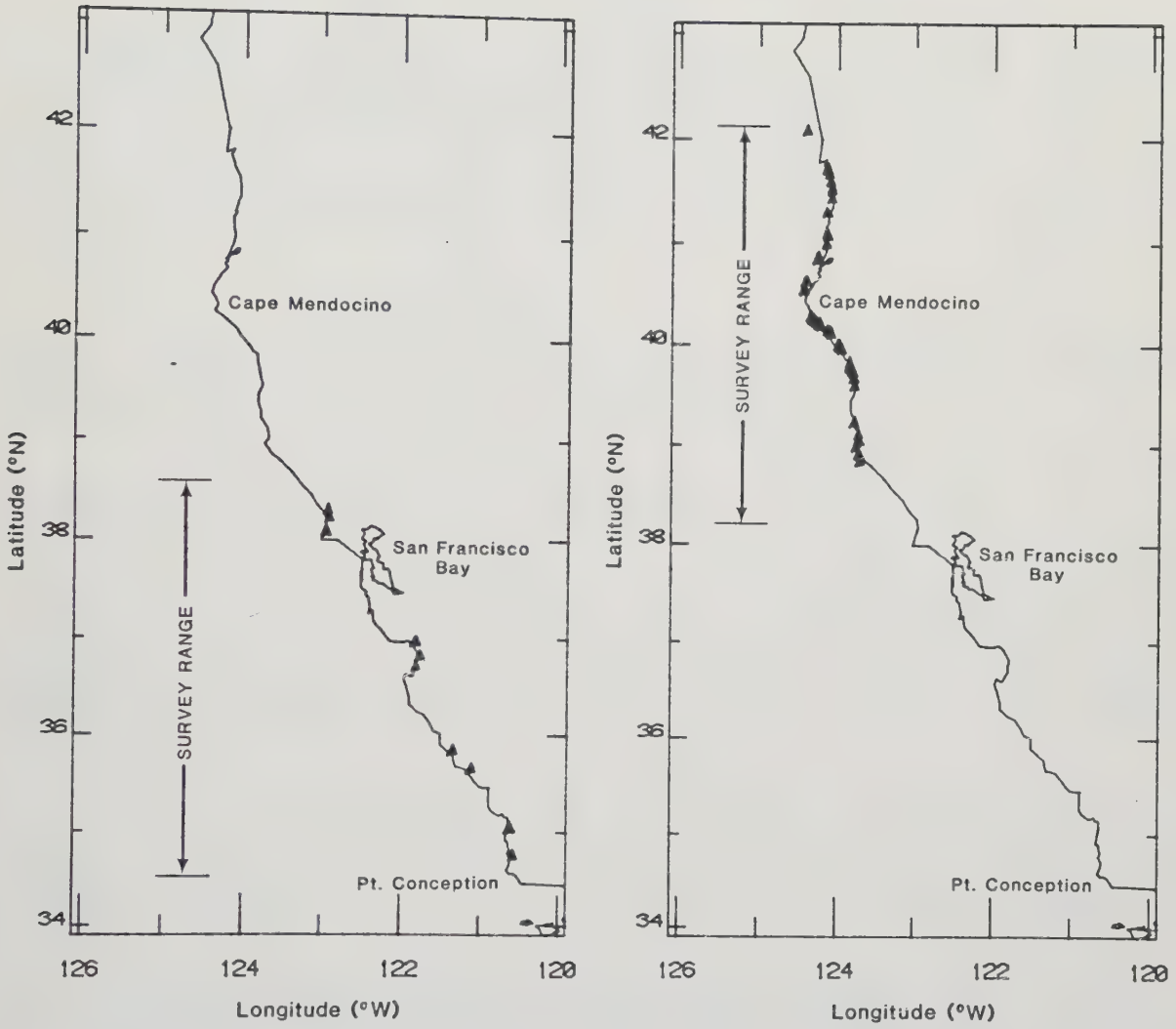


Figure 38 Sightings of harbor porpoise during Flight 12 of the 1985 survey on October 14, 1985.

Figure 39 Sightings of harbor porpoise during Flight 13 of the 1985 survey on October 15, 1985.

Appendix I.

Annotated example of data recorded on field forms and transcribed to coding forms.

DATA RECORDING EXAMPLE

Annotated examples of the field form used during the NMFS pilot whale surveys and the 1985 harbor porpoise survey are presented in Figures 1a-c. Figures 2a-f show the same data transcribed onto the data form. All times are based on a 24-hour clock for the local time zone. This example reflects an event-generated record, chronologically ordered by time. A time series of effort is generated indicating conditions and events which occurred while the observer(s) were "on effort", and events while "off effort".

Enroute to the starting point of transect 1, a sighting was made of 15 dolphins and 2 sea lions. This sighting occurred while the observers were not in a searching mode, therefore, it was recorded as "off effort" (Figures 1a, 2a).

The beginning of transect 1-leg 1 occurred at time 1310.2, followed by sighting 2 at time 1310.7 (Figures 1a, 2b). This sighting was made by the left observer and included two species (1 sea lion and 2 gray whales) in both of his observed swaths (inside and outside). These data were coded as two records, each with the same sighting number, but with different sub-sighting numbers (Figure 2b). Immediately after the sighting the plane was diverted from the transect to inspect the animals more closely. Searching effort ceased at that time. While "off effort", sighting 3 was made of 10 pilot whales.

The plane returned to the divert point from transect 1-leg 1 at 1315.0 and "on effort" observation resumed (Figures 1b, 2b). Since none of the sighting condition variables changed the resumed effort was considered part of the original effort for transect 1-leg 1.

Sighting 4 was made by the right observer at 1320.0 and consisted of 30 pilot whales (10 in the inside area , 10 in the outside area, and 10 in the extra area). The first two groups were coded as "on effort" since they were within the two observed swath areas. These sightings would be used in preparing density calculations. The latter group (10 in the extra area) was also coded as "on effort" since the observers were searching. However, this sighting would not be used in any density calculations since the area in which the animals were observed was not consistantly searched by observers. The variable "Count ? Y/N" is coded as 1 (Yes) for the first two records, and 2 (No) for the latter record (Figure 2b), to differentiate "on effort" sightings within the observed areas and non-observed areas.

Sighting 5 was made by the left observer (inside area) and consisted of 50 dolphins, headed in a 3 o'clock direction relative to the plane's heading, and at a declination angle of 63 degrees (Figures 1b, 2b). Five seconds after this sighting the right observer also made a sighting of 120 animals of the same species headed in the same direction. The latter sighting was assigned a separate sighting number (sighting 6) since it was made by a different observer and separated from the previous group by the unobserved area directly underneath the plane. Both groups, however, could have been part of the same school. The transect ended at 1323.0, observational effort ceased, and the plane proceeded to the starting location of transect 2-leg 1.

Transect 2-leg 1 began at 1325.0. The recorder noted the time (1325.0), geographic position, and other pertinent data (Figure 1c, 2c). The observers indicated their respective sea-surface penetration codes and determined a sea state value. At 1330.5 a change in sea state and sea-surface penetration resulted in the termination of transect 2-leg 1 and the starting of transect 2-leg 2 (Figures 2c-d). The ending time and position for transect 2-leg 1 was the same as the starting time and position for transect 2-leg 2, since the observers continued to search their respective swaths.

At 1335.0 the right-side observer felt he could no longer search his two swaths and changed his sea-surface penetration codes (Figure 1c). This resulted in the termination of transect 2-leg 2, and the start of transect 2-leg 3. Again, the time and position for ending transect 2-leg 2 was the same as the starting time and position for transect 2-leg 3 (Figures 2d-e). The right-side observer was "off effort" during transect 2-leg 3, as indicated by code values of 4 for his sea-surface penetration variables, while the left-side observer was "on effort".

At 1337.0 the right-side observer determined he could resume searching (Figure 1c), resulting in the termination of transect 2-leg 3, and the start of transect 2-leg 4. Both observers continued searching until the end of the transect at 1340.0. All effort was halted at that time and the aircraft flew towards the starting point for transect 3-leg 1 (Figures 2e-f).

Frequently, the situation arose where one or more of the sighting conditions changed during observational effort e.g., a change in altitude, airspeed, sea state, degree of sea-surface penetration, sun position, amount of cloud cover, or haze. Changes in any of these conditions resulted in the termination of the current leg, and the initiation of a new leg record with the same transect number. If there was not a break in time, and observational effort continued, the starting time and position for the new leg record remained the same as the ending time and position for the previous leg. All other data was recorded as described.

Figure 1a (Appendix I) - Annotated field form.

DATE December 1, 1983 FLIGHT NO. 21 AREA Santa Catalina Is.

Transect No. Sighting No. Divert Times	Start or End Leg/Sighting			Transect/Sighting Data									
				LEFT VISIBILITY			RIGHT VISIBILITY			Beaufort	Vert. Sun	Horiz. Sun	Altitude
	LAT	LONG	TIME	IN	OUT	EXTRA	IN	OUT	EXTRA				
Sighting #1	33° 27.1 N	118° 06.3 W	1301:12 Local		15 and 2	Delphinus delphis sea lions milling				2			700
Begin Transect #1	33° 14.1	118° 24.5	1310:14	Excellat	Good	—	Good	Poor	—	2	1	6	700
Sighting #2 (CWD)	33° 16.8	118° 36.5	1310 :40	1 sealion →5 63°	2 gray whales Diving 340°					2	1	6	~
Divert for sighting #2	33° 16.9	118° 36.6	1310 :48										
Sighting #3 (DJS)	33° 16.9	118° 36.6	1310 :52		10	Pilot whales				2			

"off-effort" sighting while in transect

Begin effort on transect #1, leg #1

"on-effort" sighting by left observer

Stop "on-effort" searching to circle sighting #2

"off effort" sighting #3 by right side observer

Figure 1b (Appendix I) - Annotated field form.

DATE December 1, 1983 FLIGHT NO. 21 AREA Santa Catalina Is.

	Transect No. Sighting No. Divert Times	Start or End Leg/Sighting			Transect/Sighting Data									
					LEFT VISIBILITY			RIGHT VISIBILITY			Beaufort	Vert. Sun	Horiz. Sun	Altitude
		LAT	LONG	TIME	IN	OUT	EXTRA	IN	OUT	EXTRA				
Resume "on-effort" searching for Transect #1 Leg #1	Return to Transect #1	33° 16.9' N	118° 36.6' W	1315 :00 local	Excellent	Good	—	Good	Poor	—	2	1	6	700
"on-effort" sighting #4 of 30 pilot whales in 3 areas by right side observer	Sighting #4 (DSJ)	33° 18.0	118° 40.1	1320 :00				10 pilot whales →12	10 pw →6	10 pw →5	2	1	6	✓
"on-effort" sighting #5 of 50 animals by left observer	Sighting #5 (CWO)	33° 18.5	118° 42.2	1322 :30	50 Delphinus →3 63°						2	1	6	✓
"on-effort" sighting by right side observer in two areas	Sighting #6 (DSJ)	33° 18.5	118° 42.2	1322 :35				100±20 Delphinus →3 50°	20±2 Delphinus →30 34°		2	1	6	700
End of searching effort for Transect #1, Leg #1	End Transect #1	33° 18.0	118° 43.0	1323 :00										

Figure 1c (Appendix I) - Annotated field form.

DATE December 1, 1983 FLIGHT NO. 21 AREA Santa Catalina Is.

Transect No. Sighting No. Divert Times	Start or End Leg/Sighting			Transect/Sighting Data									
				LEFT VISIBILITY			RIGHT VISIBILITY			Beaufort	Vert. Sun	Horiz. Sun	Altitude
	LAT	LONG	TIME	IN	OUT	EXTRA	IN	OUT	EXTRA				
Start Transect #2 Leg #1	33° 21.0' N	118° 45.0' W	1325 :00 local	Good	Good	—	Good	Good	—	3	2	12	700
Start Leg #2 Δ of conditions	33° 23.5	118° 48.5	1330 :30	Good	Poor	—	Poor	Poor	—	4	2	12	700
Start Leg #3 Δ of conditions	33° 25.0	118° 50.5	1335 :00	Good	Poor	—	off-effort		—	4	2	12	700
Start Leg #4 Δ of conditions	33° 30.0	118° 51.9	1337 :00	Good	Poor	—	Poor	Poor	—	4	2	12	700
End Transect #2 Leg 4	33° 40.0	118° 55.0	1340 :00										

Begin "on-effort" searching on Transect #2, Leg #1

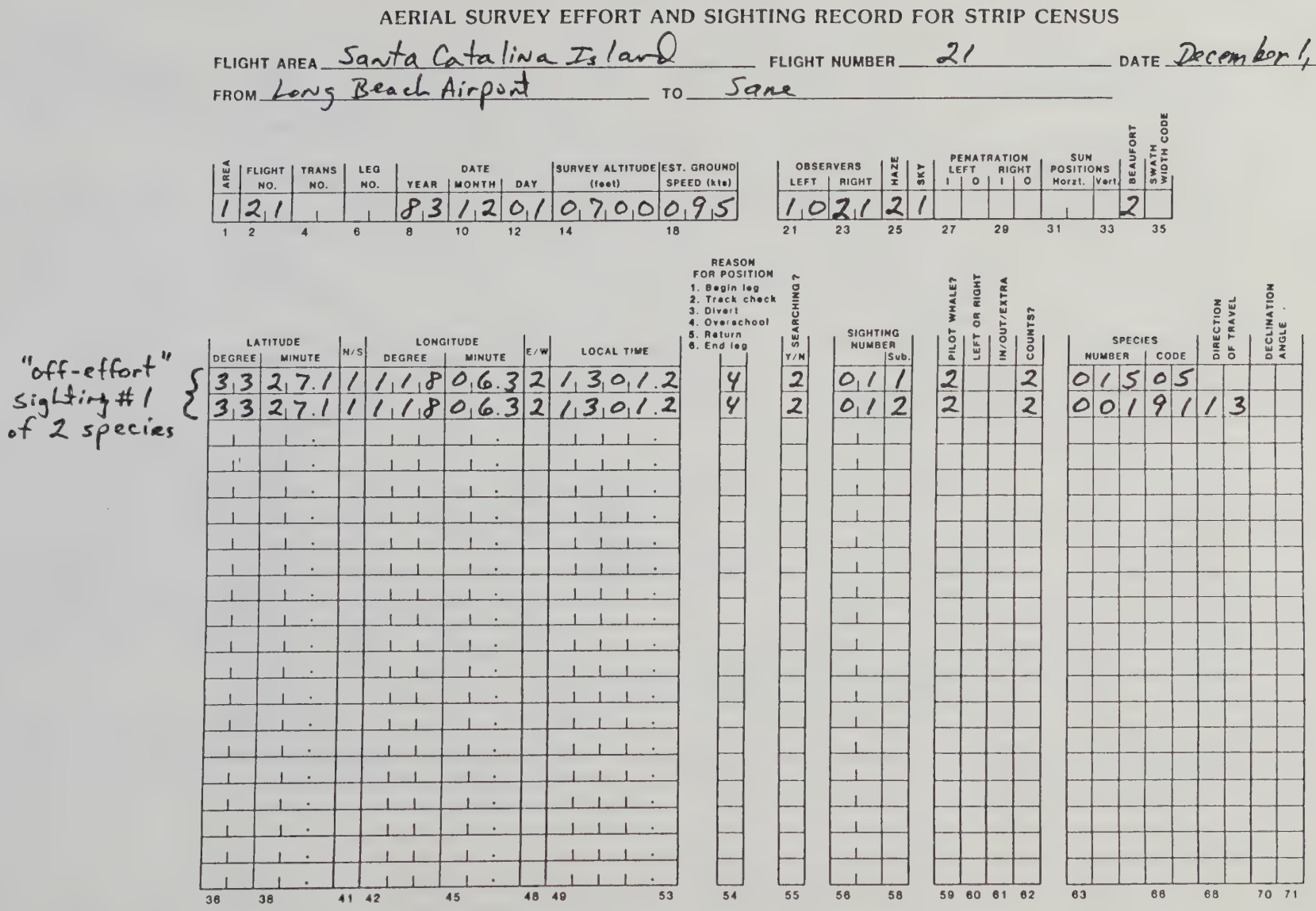
End Leg #1 and begin Leg #2 due to change in sighting conditions

End Leg #2 and begin Leg #3 due to change in sighting conditions

End Leg #3 and start Leg #4 of Transect #2

End "on-effort" searching effort for Transect #2 Leg #4

Figure 2a (Appendix I) - Annotated data form.



AERIAL SURVEY EFFORT AND SIGHTING RECORD FOR STRIP CENSUS

FLIGHT AREA Santa Catalina Island FLIGHT NUMBER 21 DATE December 1, 1983

FROM Long Beach Airport TO Sane

AREA	FLIGHT NO.	TRANS NO.	LEG NO.	DATE YEAR	DATE MONTH	DATE DAY	SURVEY ALTITUDE (feet)	EST. GROUND SPEED (kts)
1	21			83	12	01	0700	095
1 2	4	6	8	10	12	14	18	

OBSERVERS LEFT	OBSERVERS RIGHT	HAZE	SKY	PENETRATION LEFT I	PENETRATION LEFT O	PENETRATION RIGHT I	PENETRATION RIGHT O	SUN POSITIONS Horzt.	SUN POSITIONS Vert.	BEAUFORT	SWATH WIDTH CODE
10	21	2	1							2	
21	23	25	27	29				31	33	35	

"off-effort" sighting #1 of 2 species

LATITUDE DEGREE	LATITUDE MINUTE	N/S	LONGITUDE DEGREE	LONGITUDE MINUTE	E/W	LOCAL TIME	REASON FOR POSITION (1. Begin leg 2. Track check 3. Divert 4. Overschool 5. Return 6. End leg)	SEARCHING? Y/N	SIGHTING NUMBER	SIGHTING NUMBER Sub.	PILOT WHALE?	LEFT OR RIGHT	IN/OUT/EXTRA	COUNTS?	SPECIES NUMBER	SPECIES CODE	DIRECTION OF TRAVEL	DECLINATION ANGLE
33	27.1	1	118	06.3	2	1301.2	4	2	01	1	2			2	015	05		
33	27.1	1	118	06.3	2	1301.2	4	2	01	2	2			2	001	911	3	
36 38	41	42	45	48	49	53	54	55	56 58		59	60	61	62	63	66	68	70 71

Figure 2b (Appendix I) - Annotated data form.

AERIAL SURVEY EFFORT AND SIGHTING RECORD FOR STRIP CENSUS

FLIGHT AREA Santa Catalina Island FLIGHT NUMBER 21 DATE December 1, 1983

FROM Long Beach Airport TO Long Beach Airport

AREA	FLIGHT NO.	TRANS NO.	LEG NO.	DATE YEAR	DATE MONTH	DATE DAY	SURVEY ALTITUDE (feet)	EST. GROUND SPEED (kts)
1	21	01	01	83	12	01	0700	095
1	2	4	6	8	10	12	14	18

OBSERVERS LEFT	OBSERVERS RIGHT	HAZE	SKY	PENETRATION LEFT I	PENETRATION LEFT O	PENETRATION RIGHT I	PENETRATION RIGHT O	SUN POSITIONS Horzt.	SUN POSITIONS Vert.	BEAUFORT	SWATH WIDTH CODE
10	21	2	1	1	2	2	3	06	1	2	1
21	23	25	27		29			31	33		35

Start transect #1 →

	LATITUDE DEGREE	LATITUDE MINUTE	N/S	LONGITUDE DEGREE	LONGITUDE MINUTE	E/W	LOCAL TIME	REASON FOR POSITION (1. Begin leg 2. Track check 3. Divert 4. Overschool 5. Return 6. End leg)	SEARCHING? Y/N	SIGHTING NUMBER	SIGHTING NUMBER Sub.	PILOT WHALE?	LEFT OR RIGHT	IN/OUT/EXTRA	COUNT?	SPECIES NUMBER	SPECIES CODE	DIRECTION OF TRAVEL	DECLINATION ANGLE
	33	14.1	1	118	24.5	2	13 10.2	1	1										
"on-effort" sighting #2	33	16.8	1	118	36.5	2	13 10.7	2	1	02	1	2	1	1	1	001	91	05	63
	33	16.8	1	118	36.5	2	13 10.7	2	1	02	2	2	1	2	1	002	69	13	34
Divert →	33	16.9	1	118	36.6	2	13 10.8	3	2										
off-effort sighting #3	33	16.9	1	118	36.6	2	13 10.9	4	2	03	1	1			2	01	036		
Return to transect	33	16.9	1	118	36.6	2	13 15.0	5	1										
"on-effort" sighting #4	33	18.0	1	118	40.1	2	13 20.0	2	1	04	1	1	2	1	1	010	361	12	
	33	18.0	1	118	40.1	2	13 20.0	2	1	04	2	1	2	2	1	010	360	06	
	33	18.0	1	118	40.1	2	13 20.0	2	1	04	3	1	2	3	2	010	360	05	
sighting #5	33	18.5	1	118	42.2	2	13 22.5	2	1	05	1	2	1	1	1	050	050	363	
sighting #6	33	18.5	1	118	42.2	2	13 22.6	2	1	06	1	2	2	1	1	100	050	350	
	33	18.5	1	118	42.2	2	13 22.6	2	1	06	2	2	2	2	1	020	050	334	
End of transect #1	33	19.0	1	118	43.0	2	13 23.0	6	2										
		.			.		.												
		.			.		.												
		.			.		.												
		.			.		.												
		.			.		.												
		.			.		.												
		.			.		.												
	36	38	41	42	45	48	49 53	54	55	56	58	59	60	61	62	63	66	68	70 71

Figure 2c (Appendix I) - Annotated data form.

AERIAL SURVEY EFFORT AND SIGHTING RECORD FOR STRIP CENSUS

FLIGHT AREA Santa Catalina Island FLIGHT NUMBER 21 DATE December 1, 1983

FROM Long Beach Airport TO Long Beach Airport

AREA	FLIGHT NO.	TRANS NO.	LEG NO.	DATE YEAR	DATE MONTH	DATE DAY	SURVEY ALTITUDE (feet)	EST. GROUND SPEED (kts)
1	21	02	01	83	12	01	0700	095
1 2		4	6	8	10	12	14	18

OBSERVERS LEFT	OBSERVERS RIGHT	HAZE	SKY	PENETRATION LEFT I	PENETRATION LEFT O	PENETRATION RIGHT I	PENETRATION RIGHT O	SUN POSITIONS Horzt.	SUN POSITIONS Vert.	BEAUFORT	SWATH WIDTH CODE
10	21	2	1	2	2	2	2	12	2	3	1
21	23	25	27		29			31	33		35

Begin Transect #2 and Leg #1

End "on-effort" searching under Leg #1 conditions due to a change in the Beaufort and the Left and Right observers visibility.

LATITUDE DEGREE	LATITUDE MINUTE	N/S	LONGITUDE DEGREE	LONGITUDE MINUTE	E/W	LOCAL TIME	REASON FOR POSITION	SEARCHING? Y/N	SIGHTING NUMBER	SIGHTING NUMBER Sub.	PILOT WHALE?	LEFT OR RIGHT	IN/OUT/EXTRA	COUNTS?	SPECIES NUMBER	SPECIES CODE	DIRECTION OF TRAVEL	DECLINATION ANGLE
33	21.0	1	118	45.0	2	1325.0	1	1										
33	23.5	1	118	48.5	2	1330.5	6	1										
36	38	41	42	45	48	49 53	54	55	56	58	59	60	61	62	63	66	68	70 71

Figure 2d (Appendix I) - Annotated data form.

AERIAL SURVEY EFFORT AND SIGHTING RECORD FOR STRIP CENSUS

FLIGHT AREA Santa Catalina Island FLIGHT NUMBER 21 DATE December 1, 1983

FROM Long Beach Airport TO Long Beach Airport

AREA	FLIGHT NO.	TRANS NO.	LEG NO.	DATE YEAR	DATE MONTH	DATE DAY	SURVEY ALTITUDE (feet)	FST. GROUND SPEED (kts)
1	21	02	02	83	12	01	0700	095
1 2	4	6	8	10	12	14	18	

OBSERVERS LEFT	OBSERVERS RIGHT	HAZE	SKY	PENETRATION LEFT I	PENETRATION LEFT O	PENETRATION RIGHT I	PENETRATION RIGHT O	SUN POSITIONS Horzt.	SUN POSITIONS Vert.	BEAUFORT	SWATH WIDTH CODE
10	21	2	1	2	3	3	3	12	2	4	1
21	23	25	27		29		31		33	35	

Begin Transect #2 Leg #2 →

End Transect #2 Leg #2 "on-effort" searching due to the right side observer going "off-effort".

LATITUDE DEGREE	LATITUDE MINUTE	N/S	LONGITUDE DEGREE	LONGITUDE MINUTE	E/W	LOCAL TIME	REASON FOR POSITION (1. Begin leg 2. Track check 3. Divert 4. Overschool 5. Return 6. End leg)	SEARCHING? Y/N	SIGHTING NUMBER	SIGHTING NUMBER Sub.	PILOT WHALE?	LEFT OR RIGHT	IN/OUT/EXTRA	COUNT?	SPECIES NUMBER	SPECIES CODE	DIRECTION OF TRAVEL	DECLINATION ANGLE
33	23.5	1	118	48.5	2	13305	1	1										
33	25.0	1	118	50.5	2	13350	6	1										
36 38		41	42 45		48	49 53	54	55	56 58		59	60	61	62	63 66		68	70 71

Figure 2e (Appendix I) - Annotated data form.

AERIAL SURVEY EFFORT AND SIGHTING RECORD FOR STRIP CENSUS

FLIGHT AREA Santa Catalina Island FLIGHT NUMBER 21 DATE December 1, 1983

FROM Long Beach Airport TO Long Beach Airport

AREA	FLIGHT NO.	TRANS NO.	LEG NO.	DATE YEAR	DATE MONTH	DATE DAY	SURVEY ALTITUDE (feet)	EST. GROUND SPEED (kts)
1	21	02	03	83	12	01	0700	095
1	2	4	6	8	10	12	14	18

OBSERVERS LEFT	OBSERVERS RIGHT	HAZE	SKY	PENETRATION LEFT I	PENETRATION LEFT O	PENETRATION RIGHT I	PENETRATION RIGHT O	SUN POSITIONS Horzt.	SUN POSITIONS Vert.	BEAUFORT	SWATH WIDTH CODE
10	21	2	1	2	3	4	4	12	2	4	1
21	23	25	27			29		31	33	35	

note that right side observer is "off-effort while left observer is searching.

Begin Transect #2, Leg #3

End Transect #2, Leg #3 due to right side observer resuming "on-effort" searching.

LATITUDE DEGREE	LATITUDE MINUTE	N/S	LONGITUDE DEGREE	LONGITUDE MINUTE	E/W	LOCAL TIME	REASON FOR POSITION (1. Begin leg 2. Track check 3. Divert 4. Overschool 5. Return 6. End leg)	SEARCHING? Y/N	SIGHTING NUMBER	SIGHTING NUMBER Sub.	PILOT WHALE?	LEFT OR RIGHT	IN/OUT/EXTRA	COUNTS?	SPECIES NUMBER	SPECIES CODE	DIRECTION OF TRAVEL	DECLINATION ANGLE
33	25.0	1	118	50.5	2	1335.0	1	1										
33	30.0	1	118	51.9	2	1337.0	6	1										
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36	38	41	42	45	48	49 53	54	55	56	58	59	60	61	62	63	66	68	70 71

Figure 2f (Appendix I) - Annotated data form.

AERIAL SURVEY EFFORT AND SIGHTING RECORD FOR STRIP CENSUS

FLIGHT AREA Santa Catalina Island FLIGHT NUMBER 21 DATE December 1, 1983

FROM Long Beach Airport TO Long Beach Airport

AREA	FLIGHT NO.	TRANS NO.	LEG NO.	DATE YEAR	DATE MONTH	DATE DAY	SURVEY ALTITUDE (feet)	EST. GROUND SPEED (kts)
1	21	02	04	83	12	01	0700	095
1	2	4	6	8	10	12	14	18

OBSERVERS LEFT	OBSERVERS RIGHT	HAZE	SKY	PENETRATION LEFT I	PENETRATION LEFT O	PENETRATION RIGHT I	PENETRATION RIGHT O	SUN POSITIONS Horzt.	SUN POSITIONS Vert.	BEAUFORT	SWATH WIDTH CODE
10	21	2	1	2	3	3	3	1	2	2	4	1
21	23	25	27	29				31		33		35

note that right side observer is now searching under "poon" sea-surface penetration.

Begin Transect #2, Leg #4

End Transect #2 Leg #4 with both observers going "off-effort"

LATITUDE DEGREE	LATITUDE MINUTE	N/S	LONGITUDE DEGREE	LONGITUDE MINUTE	E/W	LOCAL TIME	REASON FOR POSITION (1. Begin leg 2. Track check 3. Divert 4. Overschool 5. Return 6. End leg)	SEARCHING? Y/N	SIGHTING NUMBER	Sub.	PILOT WHALE?	LEFT OR RIGHT	IN/OUT/EXTRA	COUNTS?	SPECIES NUMBER	SPECIES CODE	DIRECTION OF TRAVEL	DECLINATION ANGLE
33	30.0	1	118	51.9	2	1337.0	1	1										
33	40.0	1	118	55.0	2	1340.0	6	2										
36	38	41	42	45	48	49	53	54	55	56	58	59	60	61	62	63	66	68	70	71